



Columbia University
in the City of New York

BARNARD COLLEGE

ANNOUNCEMENT

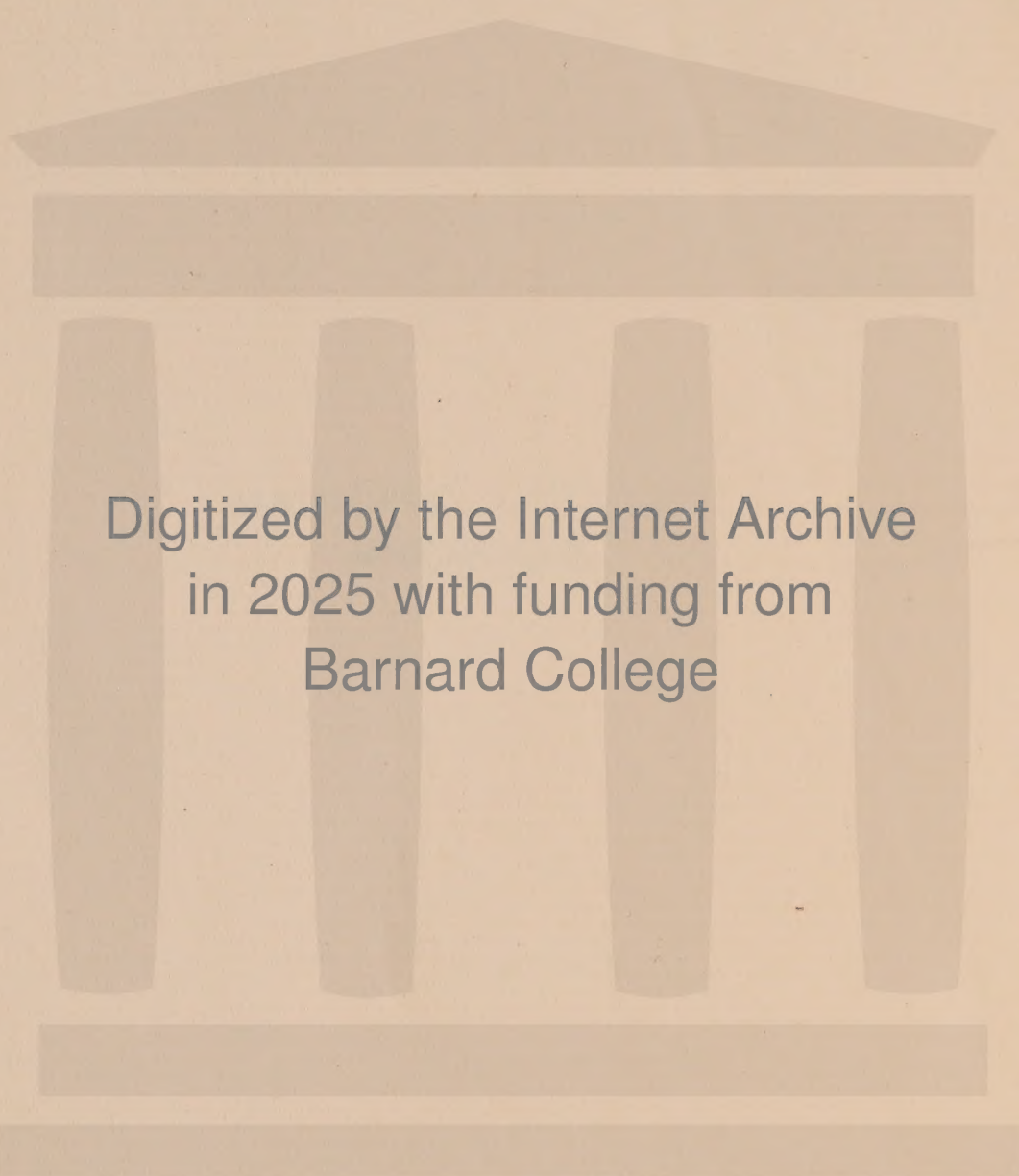
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Columbia University
Bulletin of Information

BARNARD COLLEGE

ANNOUNCEMENT

1910-1911

April, 1910

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1910

NOTE.—The date after each name indicates the expiration of term of office.

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[Any donor of not less than \$5000 will be enrolled among the founders
of Barnard College.]

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In the name of	LAZARUS STRAUS
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Miss EMILY H. BOURNE	*JOHN S. KENNEDY
SETH LOW, LL.D.	*Mrs. LUTHER G. TILLOTSON
	JOSEPH EASTMAN

* Deceased.

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President

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HERBERT L. OSGOOD, Ph.D., LL.D., *Professor of History*

EDWARD DELAVAN PERRY, Ph.D., LL.D., *Jay Professor of Greek*

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FRANK N. COLE, Ph.D., *Professor of Mathematics*

JAMES HARVEY ROBINSON, Ph.D., *Professor of History*

CALVIN THOMAS, LL.D., *Gebhard Professor of the Germanic Languages and Literatures*

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EDWARD KASNER, Ph.D., *Professor of Mathematics*

WILLIAM P. MONTAGUE, Ph.D., *Associate Professor of Philosophy*

GRACE A. HUBBARD, A.M., *Associate Professor of English*

MARIE REIMER, Ph.D., *Associate Professor of Chemistry*

¹ Absent on leave, 1910-11.

² Absent on leave, second half-year.

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 IDA H. OGILVIE, Ph.D., *Instructor in Geology*
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 ALEXANDER OTTO BECHERT, A.M., *Instructor in the Germanic Languages and Literatures*
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HARRIET R. FOX, *Assistant in English*

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COMMITTEE ON INSTRUCTION: Professors BREWSTER, *chairman*, ROBINSON, KNAPP, RICHARDS, MONTAGUE, REIMER, and GILDER-SLEEVE

COMMITTEE ON ADMISSIONS: Professors JONES, *chairman*, COLE, BRAUN, and Miss WEEKS

COMMITTEE ON SCHOLARSHIPS: The DEAN, *chairman*, Professor HUBBARD and Dr. HIRST

COMMITTEE ON HONORS: Professors TRENT, *chairman*, MALTBY, and KASNER

COMMITTEE ON STUDENT ORGANIZATIONS: Professors REIMER, *chairman*, MUSSEY, and Miss WEEKS

Officers of Administration

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ANNA E. H. MEYER, A.B., *Secretary*
VIRGINIA TUCKER BOYD, A.B., *Clerk*
MABEL FOOTE WEEKS, A.B., *Mistress of Brooks Hall*
FREDERICK A. GOETZE, M.Sc., *Consulting Engineer*
BERTHA L. ROCKWELL, *Librarian of Barnard College*

THE RELATION OF BARNARD COLLEGE TO COLUMBIA UNIVERSITY

According to the agreement made January 19, 1900, between the Trustees of Columbia College in the City of New York and Barnard College, for the purpose of incorporating Barnard College, a college for women, in the educational system of the University, it is provided:

That the President of the University shall be, *ex-officio*, President of Barnard College and a Trustee of Barnard College. He shall preside at the meetings of the Faculty of Barnard College and shall have general supervision and direction of the educational administration of such College as in the other schools of the University.

That the internal administration of Barnard College shall be conducted by a Dean, who shall be appointed by the President of the University, by and with the advice and consent of the Trustees of Barnard College. In the absence of the Dean, an Acting Dean may be appointed by the President.

That Barnard College shall be represented in the University Council of Columbia University by its Dean, who shall have the right to vote in the University Council upon all questions. The Faculty of Barnard College shall consist of the President, the Dean, and all the professors on the staff of the University who give instruction in Barnard College.

That Barnard College shall provide for and maintain such officers of instruction as may, from time to time, be agreed on. Such officers shall be nominated by the Dean of Barnard College, with the approval of the Trustees of Barnard College and of the President of the University, and shall be appointed and reappointed by the University according to its custom. Their standing shall be the same in all respects as that of other like officers in the University. For all services rendered in the University by officers so appointed an equivalent amount of service shall be rendered in Barnard College by other officers of the University of like grade, as may be determined from time to time, with the consent of the officers concerned, by the Dean of the College and the President of the University.

That members of the Faculty of Barnard College may be either men or women.

That on and after July 1, 1904, all of the undergraduate instruction for women shall be given separately in Barnard College. Barnard College will assume as rapidly as possible all of the instruction for women in the senior year, without regard to the time limit contained

in this section, and undertakes to maintain every professorship established at its instance, so long as the services of the incumbent thereof or an equivalent therefor shall be rendered in Barnard College; and when Barnard College has adequately provided for its undergraduate work, it will, as its means allow, establish additional professorships in the University, upon foundations, providing for courses which shall be open to men and women, to the end that opportunities for higher education may be enlarged for both men and women.

That the University will accept women who have taken their first degree on the same terms as men, as students of the University, and as candidates for the degrees of Master of Arts and Doctor of Philosophy under the Faculties of Philosophy, Political Science, and Pure Science, in such courses as have been or may be designated by these Faculties, with the consent of those delivering the courses, and will make suitable provision for the oversight of such women.

That the University will confer the degree of Bachelor of Arts or Bachelor of Science upon any student of Barnard College who shall have satisfactorily fulfilled in Barnard College the requirements of the University Statutes for that degree. The courses in Barnard College leading to the degree of Bachelor of Arts or Bachelor of Science shall be determined and administered by its own Faculty, and all examinations for admission to Barnard College and in course shall be conducted under the authority of the Faculty of Barnard College. The diploma shall be signed by the President of the University and by the Dean of Barnard College. The degrees conferred upon the graduates of Barnard College shall be maintained at all times as of equal value with the corresponding degrees conferred upon the graduates of Columbia College. The equivalency of the two degrees shall be maintained in such manner as the University Council may prescribe.

That, so long as this agreement is in force, Barnard College shall grant no degrees. It shall retain the right to grant certificates to students not candidates for a degree, and it shall exercise all other corporate rights and powers which are not delegated to the University by this agreement. But this agreement shall not be deemed a surrender by Barnard College of any powers conferred upon it by charter.

That Barnard College shall retain its separate corporate organization, and that the Trustees of Barnard College shall continue to provide for the financial support thereof.

That the library of the University shall be open to all women students of the University and of Barnard College upon the same terms as to men.

The provision made at Teachers College for students of Barnard College that wish to avail themselves of the advantage of professional training is explained in detail on page 56.

Teachers
College

Barnard College

GENERAL STATEMENT

Barnard College offers two distinct liberal courses of undergraduate instruction for women, each of four-years' duration, but differing widely in aim and leading to different degrees.

Courses of Study

The literary course requires the study of Latin for entrance and also in college, embraces such general subjects as are deemed essential to a liberal education, requires a major subject equivalent to a three-hour course throughout three years, and leads to the degree of Bachelor of Arts.

The science course allows the substitution of scientific and advanced subjects in place of the entrance Latin, embraces such general courses as are considered essential to any liberal education, requires a major and two minor subjects in pure science amounting to seventy points of college work, and leads to the degree of Bachelor of Science.

A general two-years' course, not leading to a degree, is arranged to give the cultural basis in literature, languages, history, and natural science for work in certain professional schools of the University.

The University requires of all students attendance upon all stated academic exercises. Students who find that stated academic exercises are fixed for days set apart for religious observance

Attendance

by the church to which they belong, and who are prevented by conscientious scruples from performing their University duties on those days, are requested to make application to the appropriate University authority for equitable relief. It should be noted, however, that in case alternative opportunities for taking a given examination are statedly offered, as for instance the January, June, and September entrance examinations, such students are expected to present themselves on the day which is not set apart as a holy day. In other cases, candidates for admission should make application to the Chairman of the Committee on Admissions of Barnard College, and students already matriculated should apply to the Committee on Instruction.

Academic

Discipline

Under the statutes all students are admitted subject to the disciplinary power of the University.

ADMISSION

Candidates are admitted by the Committee on Admissions under the following general regulations.

Except for reasons of weight, candidates for admission to the freshman class must be at least fifteen years of age at the time of matriculation and correspondingly older for admission to advanced standing. Every candidate must, before admission, present a certificate of good moral character from her last teacher, or from some properly qualified citizen. Students from other colleges or universities must bring certificates of honorable dismissal.

All requests for information regarding admission should be addressed to the Secretary of Barnard College.

ADMISSION TO THE FRESHMAN CLASS

Candidates must offer subjects amounting to fourteen and one half (14½) "units," of which some are prescribed and the remainder elective. The unit here represents the number of years, at the rate of five (5) periods a week, which will normally be required in the secondary school to prepare adequately for the college examination.

Prescribed Subjects, Group I

Candidates for the A.B. or the B.S. degree, or for the general two-years' course, *must* offer:

English (page 30).....	3
Elementary Mathematics (page 43).....	2½

Candidates for the A.B. degree *must* also offer:

Elementary Latin (page 39).....	4
---------------------------------	---

Candidates for the B.S. degree *must* also offer:

Science.....	2
Advanced or Intermediate subjects.....	2

COUNTING
IN UNITS

Elective Subjects

Candidates for the A.B., or the B.S. degree at Barnard College *must* offer, in addition to the prescribed subjects in Group I, five (5) elective units selected from Groups II, III, and IV, in accordance with restrictions indicated under each group.

Candidates for the general two-years' course, *must* offer, in addition to English and Mathematics (Group I) prescribed for all candidates for admission, nine (9) elective units selected from Groups II, III, and IV, as follows:

Ancient or Modern Foreign Languages.....	4
History, Foreign Languages, Mathematics, or Science.....	5

COUNTING
IN UNITS

Group II

Candidates may offer not more than 4 units in all from the four subjects following:

	COUNTING IN UNITS
Elementary French (page 33).....	2
Elementary German (page 34).....	2
Italian ¹ (page 38).....	2
Spanish (page 47).....	2

Group III

Candidates for the A.B. degree may offer not more than 2 units and candidates for the B.S. degree must offer not less than 2 units in all from the five subjects following:

	COUNTING IN UNITS
Botany (page 28).....	1
Chemistry (page 28).....	1
Physics (page 46).....	1
Physiography (page 46).....	1
Zoölogy (page 47)....	1

Group IV

Candidates may offer any of the following subjects without other restriction than that to offer an advanced subject will involve offering, either at the same time or earlier, the corresponding elementary subject:

	COUNTING IN UNITS
Elementary Greek (page 36).....	3
Elementary History (see note, page 37).....	2 or 1
Drawing (page 29).....	1
Music (page 45).....	1
Intermediate French (page 34).....	1
Intermediate German (page 35).....	1
¹ Advanced English (page 32).....	1
¹ Advanced Greek (page 37).....	1
¹ Advanced History (page 37).....	1
¹ Advanced Latin (page 43).....	1
Advanced Mathematics (page 44).....	½, or 1, or 1½

And in the case of candidates for B.S. degree or for the general two-years' course:

Elementary Latin (see note, page 34).....	2
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ENTRANCE EXAMINATIONS

Examinations for admission to Barnard College are held each year in January, June, and September. In 1910 they will be held June 20-25, and September 19-26, and in 1911, January 9-16.

¹ Candidates will be examined in this subject only in January and in September.

The regulations covering candidates who are prevented by religious scruples from presence at any given series of examinations may be found in the paragraph relating to Attendance on page 16.

In June, 1910, the entrance examinations will be conducted by the College Entrance Examination Board, of which Columbia University is a member, at Barnard College and at a large number of widely distributed points. A list of these points will be published by the Board (Post-Office Sub-Station 84, New York, N. Y.) about March 1. Requests for examinations at particular points should reach the Secretary of the Board not later than February 1.

Place

In September, 1910, and January, 1911, the entrance examinations of Barnard College, conducted by the Columbia University Committee on Undergraduate Admissions, will be held only at the College. *The September examinations are intended for candidates who plan to enter college immediately. Preliminary examinations should not be taken at that time.*

Every candidate for examination is required to file an application in advance. For the examinations in June, 1910, the application must be filed with the Secretary of the College Entrance Examination Board, Post-Office Sub-Station 84, New York, N. Y. Applications for examination in the United States east of the Mississippi River (also at Minneapolis, St. Louis, and other points on the Mississippi River) must be filed on or before June 6. Applications for examination elsewhere in the United States or in Canada must be filed on or before May 30; and applications for examination at points outside of the United States and Canada must be filed on or before May 16. Requests for blank forms of application should be addressed to the Secretary of the Board.

Application
for
Examination

A candidate for a competitive scholarship to be awarded on the basis of the June examinations must, in her application to the Secretary of the College Entrance Examination Board, mention the scholarship for which she is competing; in which case her answer books, after having been rated by the Board, will be transmitted to the Committee on Admissions of Barnard College.

For the examinations in September, 1910, and January, 1911, applications must be filed with the Registrar of Barnard College on or before September 10, and January 2, respectively. Requests for blank forms of application should be addressed to the Registrar of Barnard College.

Every application for examination in June must be accompanied by a fee of \$5 in the form of a postal order, express order, or draft on New York, to the order of the *College Entrance Examination Board*, for all candidates examined at points in the United States and Canada, and \$15 for all candidates examined at points outside of the United States and Canada.

Examination
Fee

Every application for examination in September or in January must be accompanied either by a fee of \$5 in the form of a postal order, express order, or draft on New York, to the order of *Barnard College*, by a receipt from the Bursar of Barnard College for an examination fee previously paid, or by the receipt issued by the Secretary of the College Entrance Examination Board for the June examinations immediately preceding. *The latter will be accepted in either September or January but not in both; and a single fee paid to the University will cover only two consecutive series of examinations, namely January and September or September and January.*

If a late application is accepted either by the College Entrance Examination Board, or by the College, a second fee of \$5 must be paid.

The receipt for the examination fee must be carefully preserved by the candidate and shown (not surrendered) to the Supervisor in charge of the examinations as evidence of her right to be admitted to the same. No candidate will be admitted to the September or January examinations upon the receipt of the College Entrance Examination Board, unless that receipt bears the certification of the Registrar of Barnard College that the candidate's application for the examinations has been filed.

A candidate may present herself at any of the scheduled series of examinations, and the results may be credited towards the fulfilment of the requirements for admission subject to the following restrictions:

- Credit for
Examina-
tions

(1) The results of an examination may stand to her credit for twenty-nine months, but no longer.

(2) At the first and second series credit will be given only for such subjects, or lettered (or numbered) parts of a subject, as are approved by her principal instructor.

(3) She may not present herself at more than four series of examinations except by special consent of the Committee on Undergraduate Admissions.

(4) The Committee on Undergraduate Admissions requires from the principal of the preparatory school last attended a statement for every candidate about to enter indicating the extent and character of her work in such subjects as she offers for admission. Blank forms for this statement may be obtained by the school from the Registrar of Barnard College.

Candidates taking the examinations must report to the supervisor,

Schedule of
Examina-
tions

in the examination room, fifteen minutes in advance of the first examination which they are to attend.

June 20-25, 1910

Monday, June 20

Mathematics *a* (elementary algebra, complete)..... 9.30-12.30

Mathematics <i>a</i> , i (algebra to quadratics).....	9.30-11.30
Mathematics <i>a</i> , ii (quadratics and beyond).....	9.30-11.30
History <i>b</i> (mediaeval and modern history).....	1.30- 3.30
History <i>d</i> (American history).....	1.30- 3.30
Physics.....	3.45- 5.45
Botany	3.45- 5.45
Zoölogy.....	3.45- 5.45

Tuesday, June 21

Mathematics <i>c</i> (plane geometry).....	9-11
Mathematics <i>d</i> (solid geometry).....	9-11
Mathematics <i>cd</i> (plane geometry and solid geometry)...	9-12
History <i>a</i> (ancient history).....	1.30- 3.30
History <i>c</i> (English history).....	1.30- 3.30
German <i>a</i> (elementary German).....	3.45- 5.45

Wednesday, June 22

Latin <i>m</i> (elementary sight translation of prose).....	10.45-12.30
French <i>a</i> (elementary French).....	1.30- 3.30
German <i>b</i> (intermediate German).....	3.45- 5.45
Spanish.....	3.45- 5.45

Thursday, June 23

Latin <i>c</i> (Cicero).....	9-11
Latin <i>a</i> (grammar and elementary prose composition) ..	11.15-12.30
Latin <i>d</i> (Virgil's <i>Æneid</i> , Books I-VI).....	1.30- 3.30
French <i>b</i> (intermediate French).....	3.45- 5.45

Friday, June 24

English <i>a</i> (reading and practice).....	9-11
Latin <i>l</i> (prose composition).....	11.15-12.30
English <i>b</i> (study and practice).....	1.30- 3.30
Chemistry.....	3.45- 5.45
Physiography.....	3.45- 5.45
Greek <i>c</i> (Homer's <i>Iliad</i> , Books I-III).....	3.45- 5.45
Music <i>b</i> (harmony).....	3.45- 5.45

Saturday, June 25

Greek <i>b</i> (Xenophon).....	9-11
Drawing.....	9-11
Mathematics <i>b</i> (advanced algebra).....	9-11
Greek <i>a</i> (grammar and elementary prose composition) ..	11.15-12.30
Mathematics <i>f</i> (plane trigonometry).....	1.30- 3.30
Greek <i>g</i> (sight translation of prose).....	1.30- 3.30
Greek <i>f</i> (prose composition).....	3.45- 5.15
Music <i>a</i> (musical appreciation).....	3.45- 5.45

September 19-26, 1910, and January 9-16, 1911

Monday, September 19, and January 9

Mathematics <i>a</i> , <i>i</i> , <i>ii</i> (elementary algebra: to quadratics; quadratics and beyond).....	9.30-12.30
History <i>b</i> (mediæval and modern history).....	1.30- 3.30
History <i>d</i> (American history).....	1.30- 3.30
Physics.....	3.45- 5.45
Botany.....	3.45- 5.45
Zoölogy.....	3.45- 5.45

Tuesday, September 20, and January 10

Mathematics <i>c</i> , <i>d</i> (plane geometry; solid geometry)	9-12
History <i>a</i> (ancient history).....	1.30- 3.30
History <i>c</i> (English history).....	1.30- 3.30
German <i>a</i> (elementary German).....	3.45- 5.45

Wednesday, September 21, and January 11

Latin <i>m</i> (elementary sight translation of prose).....	10.45-12.30
French <i>a</i> (elementary French).....	1.30- 3.30
German <i>b</i> (intermediate German).....	3.45- 5.45
Spanish.....	3.45- 5.45
Italian.....	3.45- 5.45

Thursday, September 22, and January 12

Latin <i>c</i> (Cicero).....	9-11
Latin <i>a</i> (grammar and elementary prose composition) ..	11.15-12.30
Latin <i>d</i> (Virgil's <i>Æneid</i> , Books I-VI).....	1.30- 3.30
French <i>b</i> (intermediate French).....	3.45- 5.45

Friday, September 23, and January 13

English <i>a</i> (reading and practice).....	9-11
Latin <i>l</i> (prose composition).....	11.15-12.30
English <i>b</i> (study and practice).....	1.30- 3.30
Chemistry.....	3.45- 5.45
Physiography	3.45- 5.45
Greek <i>c</i> (Homer's <i>Iliad</i> , Books I-III).....	3.45- 5.45
Music <i>b</i> (harmony).....	3.45- 5.45

Saturday, September 24, and January 14

Greek <i>b</i> (Xenophon).....	9-11
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Mathematics <i>b</i> (advanced algebra).....	9-11
Drawing.....	9-11.30
Greek <i>a</i> (grammar and elementary prose composition)..	11.15-12.30
Advanced history.....	1.30- 3.30
Mathematics <i>f</i> (plane trigonometry).....	1.30- 3.30
Greek <i>g</i> (sight translation of prose).....	1.30- 3.30
Greek <i>f</i> (prose composition).....	3.45- 5.45
Music <i>a</i> (musical appreciation).....	3.45- 5.45

Monday, September 26, and January 16

Advanced English.....	9-12
Advanced Greek.....	9-12
Advanced Latin.....	1-4

Barnard College accepts in lieu of its entrance examinations, no credentials of any sort except (1) certificates from the College Entrance Examination Board,¹ (2) the credentials furnished by the Education Department of the State of New York showing that the candidate has completed certain courses in a high school in the State of New York and that she has passed the examinations of the Education Department in these subjects (for table of equivalents, see p. 24.), (3) the certificates of entrance examinations taken in good faith for admission to other colleges and (4) certain courses of the Summer Session of Columbia University (see p. 25.) *These credentials are accepted only in so far as they cover specifically, and by name, subjects or lettered (or numbered) parts of a subject which are accepted for admission to Barnard College, and state in percentages the grades received in the examinations in such subjects.* Candidates must take the regular entrance examinations in the subjects in which their certificates or credentials are not deemed adequate. Except for reasons of weight certificates or credentials are not accepted as covering subjects passed more than twenty-nine months previous to the date at which the candidate intends to begin residence. No certificates from preparatory schools or from preparatory departments of colleges will be accepted in lieu of entrance examinations.

Certificates
in Lieu of
Entrance
Examina-
tions

In order to be credited towards entrance, the reports of a candidate's examinations, together with (1) the statement of the extent and character of her preparation in each subject offered, and (2) any science note-books or drawings that she has to present, must be in the hands of the Committee on Admissions at least ten days prior to the opening of the term in September or in January.

The subjects for which the State credentials are accepted and their value in Barnard entrance units are as follows:

¹ The numerical ratings of the Board are accepted by the College, but the passing mark is fixed by the Committee on Undergraduate Admissions.

	State Education Department counts	Barnard units
¹ Botany (Advanced Botany).....	5	1
¹ Chemistry.....	5	1
¹ Drawing, including Advanced Drawing.....	6	1
English, four years.....	13	3
French, Elementary.....	10	2
" Intermediate.....	5	1
German, Elementary.....	10	2
" Intermediate.....	5	1
Greek:		
Grammar and Composition.....	4	1
Anabasis.....	3	1
Advanced Composition.....	1	
Homer.....	3	1
Translation of Prose at Sight.....	1	
¹ History:		
¹ Ancient.....	5	1
¹ European.....	5	1
¹ English.....	5	1
¹ American.....	5	1
Italian.....	10	2
Latin:		
Grammar and Composition.....	4	1
Cicero.....	4	1
Virgil.....	4	1
Advanced Prose Composition.....	1	1
Sight Translation of Prose.....	1	
Mathematics:		
Algebra.....	5	1
Intermediate Algebra.....	2	1/2
Plane Geometry.....	5	1
Solid Geometry.....	2	1/2
Plane Trigonometry.....	2	1/2
Advanced Algebra.....	2	1/2
¹ Physics.....	5	1
¹ Physiography.....	5	1
Spanish.....	10	2
¹ Zoölogy (<i>a.</i> Advanced Zoölogy <i>or b.</i> Elementary Zoölogy <i>with</i> Physiology and Hygiene).	5	1

¹ Credit cannot be secured in these subjects unless the following requirements are met:

(a) In all natural sciences, laboratory note-books, duly certified by the teachers, must be presented at least ten days prior to the opening of the term in September or in January.

(b) In Drawing at least twenty (20) free-hand drawings, duly certified by the teacher,

A grade of C in the following courses of the Summer Session of Columbia University will fulfil entrance requirements or remove entrance conditions in the subjects specified in each case:

Chemistry sA—for chemistry

French sA₁ with sA₂—for elementary French

French sB₁ with sB₂—for intermediate French

German sA₁, sA₂, sA₃—for elementary German

German sB₁ with sB₂—for intermediate German

Italian s₁ with s₂—for elementary Italian

Mathematics sA₁, sA₂, sA₃ (any two)—for advanced mathematics

Physics sA—for physics

Spanish s₁ with s₂—for elementary Spanish

**Summer
Session Work
in Lieu of
Entrance
Examinations**

A student may be admitted to the freshman class on probation when the total number of units received by her in the entrance examinations amounts to eleven (11) out of the total required fourteen and one half (14½) units; but general deficiency in any one of the prescribed subjects will be regarded as disqualifying a candidate for admission.

**Entrance
Conditions**

A student admitted conditionally or by certificate will be held under probation during the first half-year of residence. By Tuesday of the week preceding the Christmas holidays, each department in which students on probation attend will make to the Committee on Instruction a special report of progress in the case of every such student. The Provost, on the recommendation of the Committee on Instruction, will as soon as practicable after the mid-year examinations decide as to each student on probation whether she shall be admitted to full standing, have her period of probation extended, or be dropped from the roll.

Probation

The mark C, B, or A, obtained at the end of the first half-year of residence, in a course of a higher grade than the entrance requirement, will be regarded as removing an entrance condition in that subject, unless the condition was incurred in a part of the subject not directly involved in the work of the college course. To remove a condition by college work, a mark of at least thirty per cent. must have been obtained in an entrance examination. Any condition not so removed must be satisfied by a regular entrance examination for which an application must be filed and a fee paid, precisely as required of a candidate for admission. (Regarding the removal of entrance conditions by work in the Summer Session of Columbia University, see above.)

must be presented at least ten days prior to the opening of the term in September or in January.

(c) In History only the five-count electives will be accepted.

No student with unremoved entrance conditions may be admitted to the sophomore class.

ADMISSION TO ADVANCED STANDING

A candidate for admission to advanced standing, either upon the basis of certificates from other colleges or on examination, must fill out the appropriate application blank to be obtained from the Registrar, and file it with the Chairman of the Barnard College Committee on Admissions at least one week before the first day of the September or January entrance examinations. Each candidate must also present at that time, (1) an official statement of her academic record including entrance credits, (2) letters from at least two of her instructors in regard to her scholarship and character, (3) an honorable dismissal from the college which she is leaving, and (4) a marked catalogue of that college plainly showing every requirement for admission and every course of instruction with which she is credited.

Every candidate for admission to advanced standing must show that she has attained proficiency in the equivalent of (1) the requirements for admission to the freshman class; (2) all the prescribed studies already pursued by the class to which she seeks admission; (3) as many elective studies as she would have pursued if she had entered the class at the beginning of the freshman year.

She may be admitted notwithstanding deficiencies in some of these studies, but will not be recommended for a degree until she shall have brought all her studies up to the point required for that degree.

The credits granted in any subject to a student admitted with advanced standing may be withdrawn or diminished in amount, if, in pursuing such subject after admission to Barnard College, the student prove that the granting of the credits was wholly or in part unwarranted by her previous work.

No applicant may enter the senior class as a candidate for a degree after October 15 in any year, and no student will receive a degree who has resided less than two full half-years at Barnard College. (See also paragraph 11, page 54.)

Candidates for admission to the freshman class offering for entrance more than the required $14\frac{1}{2}$ units may be given credit toward a degree for this extra work, on a basis to be determined by the Committee on Admissions, provided that not more than 18 of the 124 points required for a degree may be gained in this way.

ADMISSION AS SPECIAL STUDENTS

A candidate for admission as a special student must fill out the appropriate application blank to be obtained from the Registrar and file it with the Chairman of the Barnard College Committee on Admis-

sions at least one week before the first day of the September or January entrance examinations.

Special students in Barnard College are of two classes: non-matriculated and matriculated.

Non-matriculated special students must be women of mature age who wish to pursue chiefly advanced courses of special study. They may be admitted at the discretion of the Committee on Admissions without passing formal entrance examinations; but they must furnish proof that they have at some time pursued the studies included in the matriculation examinations and must satisfy the requirements of the department that they desire to enter. *Candidates desiring to pursue merely elementary courses, as in languages, etc., will not be admitted as non-matriculated special students.*

**Non-
Matriculated
Special
Students**

No courses taken by non-matriculated special students can at any time be counted by them toward a degree.

Matriculated special students are women who wish, without taking a degree, to make a serious study of some subject or group of subjects. They must pass the regular examinations for admission to the freshman class and have full credit for fourteen and one half (14½) units of the entrance requirements. (See p. 17.) They may, therefore, in event of a change of plan, be credited with such of their courses as may coincide with the courses leading to a degree.

**Matriculated
Special
Students**

Except for reasons of weight, satisfactory to the Committee on Admissions, no one will be received as a special student who is less than eighteen years of age, or who has, within ten months of the time of her application, either been rejected or become deficient as a regular student.

Once admitted to the college, special students will be allowed to select their own courses of study subject to the general approval of the Provost, on the recommendation of the Committee on Instruction, and to the particular approval for each course selected, of the head of the department in which the course is given.

Each student is required to pursue in each half-year courses amounting to at least eight (8) points, unless excused by the Provost, on the recommendation of the Committee on Instruction, for reasons of special weight.

In the courses which they severally pursue all special students will be held to the observance of the same regulations as to attendance, examination, proficiency, and deficiency as regular students.

All special students will receive a formal statement as to the satisfactory completion of the work that they have taken.

DEFINITIONS OF REQUIREMENTS¹

Specimens of the question papers set by Columbia University may be obtained from the Registrar upon application. The question papers of the College Entrance Examination Board are published annually in book form by Ginn & Company, Boston, Mass.

For a more detailed statement of the requirements in botany and physiography or lists of suitable laboratory experiments in chemistry and physics the reader is referred to the pamphlet of the College Entrance Examination Board containing definitions of the requirements in each subject.

BOTANY (counting one unit)

The candidate should have received training by means of the laboratory method in:

The structure and the more obvious features of the life history of at least ten types among the higher seed plants chosen from the more representative families (*e. g.*, Gramineæ, Liliaceæ, Salicaceæ, Ranunculaceæ, Rosaceæ, Leguminosæ, Cruciferæ, Solanaceæ, Labiataæ, Compositæ). In addition to these the following types are recommended among the remaining lower groups of plants: pine, *Selaginella*, a fern, a moss (*Polytrichum* or *Funaria*), a leafy hepatic, *Marchantia*, a mildew (*Microsphaera*), an agaric, *Vaucheria*, *Spirogyra*, and a protophyte (preferably *Sphærella*).

Morphology of shoot, root, and seed. This work covers the growth, character, relation, and function of the more important tissues of the stem, leaf, bud, and root; together with a study of the more common variation of these organs. The work on the seed includes the structure and homologies of the principal types, nature of reserve food, the renewal of growth of the seed, and the development of the seedling.

Physiology. This work should cover the essential facts concerning irritability, photosynthesis, respiration, digestion, growth, and reproduction.

Ecology. The natural history of plants should receive considerable attention, and the behavior of plants toward environmental factors (especially light and moisture), dissemination, cross and close pollination, and the more important structural and physiological characteristics of plant formations (hydrophytes, halophytes, mesophytes, and xerophytes) should be included.

As evidence of proper laboratory training and of satisfactory work, a note-book must be submitted. (See Submission of Note-books, page 49.)

CHEMISTRY (counting one unit)

The candidate's preparation in chemistry should include:

a. The study of a standard text-book, to the end that the pupil

¹ The relative value of subjects is expressed in units according to the time for adequate preparation in them; a unit in the sense here used represents a course of five (5) periods weekly throughout an academic year of the preparatory school.

may gain a comprehensive and connected view of the most important facts and laws of elementary chemistry.

b. Instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations.

c. Individual laboratory work, comprising at least forty exercises.

An indexed note-book of the experiments must be submitted. (See Submission of Note-books, page 49.)

The following outline includes only the indispensable things which must be studied in the class-room and laboratory. The material is, for the most part, common to all elementary text-books and laboratory manuals. The order of presentation will naturally be determined by each teacher for himself.

OUTLINE.—The chief physical and chemical characteristics, the preparation and the recognition of the following elements together with their principal compounds: *oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, iodine, fluorine, sulphur*, phosphorus, silicon, potassium, *sodium*, calcium, magnesium, *zinc*, copper, mercury, silver, aluminum, *lead*, tin, *iron*, manganese, chromium.

More detailed study should be confined to the italicized *elements* (as such) and to a restricted list of compounds such as: water, hydrochloric acid, carbon-monoxide, carbon-dioxide, oxides of nitrogen, nitric acid, ammonia, sulphur-dioxide, sulphuric acid, hydrogen sulphide, sodium-hydroxide, ammonium-hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life), flames, acids, bases, salts, oxidation and reduction, crystallization, combining proportions by weight and volume, calculations founded on these and Boyle's and Charles's laws, symbols and nomenclature, atomic and ionization theory, atomic weights, valency (in a very elementary way), nascent state, natural grouping of the elements, solution (solvents and solubility of gases and solids and liquids, saturation), strength of acids and bases, conservation and dissipation of energy, chemical energy, electrolysis. Chemical terms should be clearly understood, and the pupil should be able to illustrate and apply the ideas they embody. The theoretical topics are not intended to form separate subjects of study, but to be taught only so far as is necessary for the correlation and explanation of the experimental facts.

DRAWING (counting one unit)

The candidate's preparation in drawing should include simple geometrical, plane, and solid figures, simple pieces of machinery, the drawing of simple pieces of architectural ornament (a Greek anthemion, a design of iron scrollwork, etc.), the copying of machinery details, or the copying of still life and simple plant forms, with a fair knowledge

of perspective and light and shade as applied in freehand sketching. The candidate should be able to reproduce from a flat copy with enlargement or reduction of size.

Every candidate must present at the time of and as part of the examination in drawing a set of freehand drawings executed during one year's course in a preparatory school and within a period of two years before the time of application for admission.

These drawings should be at least twenty in number and should display the proficiency of the student in the following points:

1. Ability to sketch freehand from dictation with reasonable accuracy and with fairly correct, steady, and clean lines any simple geometrical figure or combinations of figures, straight lines, squares and circles, polygons, spirals, or the like.

2. Ability to sketch from the object with reasonable correctness of proportion, structure, and form, geometrical models, simple vases, simple details of machinery or common objects such as ordinary household furniture and utensils.

3. Ability to sketch from the copy, enlarging or reducing its dimensions, any simple object such as a globe valve, stop-cock, or any ordinary historical ornament such as an acanthus leaf, egg and dart ornament, anthemion, tile pattern, iron scrollwork, or the like.

Correctness of proportion and accuracy in the angles and curves and structural relations of the parts of every figure or object drawn are of the highest importance, and great care should be taken in laying out the drawings, in the use of construction lines, and in the drawing of general masses and contour before the details are begun.

A certain proportion of shade drawings from casts may be included, but they are not required and should not form the majority of the drawings submitted.

All drawings should be of uniform size, and fastened together, not rolled.

In case the candidate has not attended a systematic course of instruction as detailed above she may submit a corresponding set of freehand drawings. (See Submission of Note-books, page 49.)

ENGLISH

Elementary (counting three units)

No applicant will be accepted in English whose work is notably defective in point of spelling, grammar, idiom, punctuation, or division into paragraphs.

a. Reading and Practice.—The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before her in the examination paper. The treatment of these topics is designed to show the candidate's power of clear and

accurate expression, and will call for only a general knowledge of the substance of the books. In every case knowledge of the book will be regarded as less important than the ability to write good English. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified by her instructor, containing compositions or other written work done in connection with the reading of the books, and prepared in accordance with a list of directions, to be obtained by addressing the Secretary of the University. (See Submission of Note-books, page 49.) In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

Candidates intending to take this part of the examination should read the books prescribed for the year in which they propose to submit themselves for examination in this subject.

In 1910 and 1911 ten books *and in 1912 nine books*, selected from the following list as prescribed below, are to be offered for examination.

Group I (two to be selected). Shakspeare's *As you Like It*, *Henry V*, *Julius Cæsar*, *The Merchant of Venice*, *Twelfth Night*.

Group II (one to be selected). Bacon's *Essays*; Bunyan's *The Pilgrim's Progress*, Part I; *The Sir Roger de Coverley Papers* in the *Spectator*; Franklin's *Autobiography*.

Group III (one to be selected). Chaucer's *Prologue*; Spenser's *Faerie Queen* (selections); Pope's *The Rape of the Lock*; Goldsmith's *The Deserted Village*; Palgrave's *Golden Treasury* (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, and Burns.

Group IV (two to be selected). Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Scott's *Quentin Durward*; Hawthorne's *The House of the Seven Gables*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; Dickens's *A Tale of Two Cities*; George Eliot's *Silas Marner*; Blackmore's *Lorna Doone*.

Group V (two, *but in 1912 one* to be selected). Irving's *Sketch-Book*; Lamb's *Essays of Elia*; De Quincey's *Joan of Arc* and *The English Mail Coach*; Carlyle's *Heroes and Hero Worship*; Emerson's *Essays* (Selected); Ruskin's *Sesame and Lilies*.

Group VI (two to be selected). Coleridge's *The Ancient Mariner*; Scott's *The Lady of the Lake*; Byron's *Mazeppa* and *The Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shelley; Macaulay's *Lays of Ancient Rome*; Poe's *Poems*; Lowell's *The Vision of Sir Launfal*; Arnold's *Sohrab and Rustum*; Longfellow's *The Courtship of Miles Standish*; Tennyson's *Gareth and Lynette*, *Launcelot and Elaine*, and *The Passing of Arthur*, *but in 1912 Tennyson's The Princess is substituted*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Evelyn Hope*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident*

of the French Camp, The Boy and the Angel, One Word More, Hervé Riel, Pheidippides.

b. Study and Practice.—This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form, and structure. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

In connection with the reading and study of the required books parallel or subsidiary reading should be encouraged, and a considerable amount of English poetry should be committed to memory. The essentials of English grammar should not be neglected in preparatory study.

The books prescribed for this part of the examination are as follows:

In 1910 and 1911: Shakspeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

In 1912: Shakspeare's *Macbeth*; Milton's *Comus*, *L'Allegro*, and *Il Penseroso*, or Tennyson's *Gareth and Lynette*, *Launcelot and Elaine*, and the *Passing of Arthur*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

Advanced (counting one unit)

Candidates offering Advanced English will be required to have covered substantially the same ground as that included under English A1-A2, the course prescribed for freshmen. Candidates are examined in the following subjects:

1. English composition, with special attention to correctness of style and orderly arrangement of material. In preparation for this part of the examination, the student should gain a practical acquaintance with the principles of rhetoric as expounded in any good textbook.

2. English literature—the general history from the Anglo-Saxon period to the death of Tennyson, and selected works from the Elizabethan period to the present day. The selected works are: Marlowe's *Edward II*; Shakspeare's *Hamlet*; Milton's *Paradise Lost* (Books 1, 2, 3, and 6); Dryden's *Essay of Dramatic Poesy*; Swift's *The Battle of the Books*, Pope's *Iliad* (Books 1, 6, 22, and 24); Goldsmith's *She Stoops to Conquer*; Byron's *Childe Harold*; Webster's *Reply to Hayne*; Dickens's *Old Curiosity Shop*.

In examination the candidate will be expected to answer questions on the history of English literature and to write short essays based on topics relating to the works prescribed. In addition she must submit not less than ten essays of at least 500 words each. At least half but not all of these essays, should be on topics chosen from the books prescribed. (See Submission of Note-books, page 49.)

FRENCH

a. Elementary (counting two units)

THE AIM OF THE INSTRUCTION.—At the end of the elementary course the pupil should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of everyday life, or based upon a portion of the French text read and to answer questions on the rudiments of the grammar, as defined below.

THE WORK TO BE DONE.—During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the inflection of adjectives, participles and pronouns; the use of personal pronouns, common adverbs, prepositions, and conjunctions; the order of words in the sentence, and the elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation.

During the second year the work should comprise (1) the reading of from 250 to 400 pages of easy modern prose in the form of stories, plays, or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the text already read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

Suitable texts for the second year are; About's *Le roi des montagnes*, Bruno's *Le tour de la France*, Daudet's easier short tales, La Bédoulière's *La Mère Michel et son chat*, Erckmann-Chatrian's stories, Foa's *Contes biographiques* and *Le petit Robinson de Paris*, Foncin's *Le pays de France*, Labiche and Martin's *La Poudre aux yeux* and *Le voyage de*

M. Perrichon, Legouvé and Labiche's *La cigale chez les fourmis*, Malot's *Sans famille*, Mariet's *La tâche du petit Pierre*, Mérimée's *Colomba*, extracts from Michelet, Sarcey's *Le siège de Paris*, Verne's stories.

b. Intermediate (counting one unit)

THE AIM OF THE INSTRUCTION.—At the end of the intermediate course the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a more thorough knowledge of syntax than is expected in the elementary course.

THE WORK TO BE DONE.—This should comprise the reading of from 400 to 600 pages of French of ordinary difficulty, a portion to be in the dramatic form; constant practice in giving French paraphrases, abstracts, or reproductions from memory of selected portions of the matter read; the study of a grammar of moderate completeness; writing from dictation.

Suitable texts are: About's stories, Augier and Sandeau's *Le gendre de M. Poirier*, Béranger's poems, Corneille's *Le Cid* and *Horace*, Coppée's poems, Daudet's *La Belle-Nivernaise*, La Brète's *Mon oncle et mon curé*, Madame de Sévigné's letters, Hugo's *Hernani* and *La chute*, Labiche's plays, Loti's *Pêcheur d'Islande*, Mignet's historical writings, Molière's *L'avare* and *Le bourgeois gentilhomme*, Racine's *Athalie*, *Andromaque*, and *Esther*, George Sand's plays and stories, Sandeau's *Mademoiselle de la Seiglière*, Scribe's plays, Thierry's *Récits des temps mérovingiens*, Thiers's *L'expédition de Bonaparte en Egypte*, Vigny's *La canne de jonc*, Voltaire's historical writings.

GERMAN

a. Elementary (counting two units)

THE AIM OF THE INSTRUCTION.—At the end of the elementary course in German the pupil should be able to read at sight, and to translate if called upon, by way of proving her ability to read, a passage of very easy dialogue or narrative prose, help being given upon unusual words and constructions, to put into German short English sentences taken from the language of everyday life or based upon the text given for translation, and to answer questions upon the rudiments of grammar, as defined below.

THE WORK TO BE DONE.—During the first year the work should comprise: (1) careful drill upon pronunciation; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar—that is, upon the inflection of the articles, of such nouns as belong to the language of everyday life, of adjectives, pronouns, weak verbs, and the more usual strong verbs, also upon the use of the more common prepositions, the simpler uses of the modal

auxiliaries, and the elementary rules of syntax and word-order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (5) the reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in the reproduction from memory of sentences previously read.

During the second year the work should comprise: (1) the reading of from 150 to 200 pages of literature in the form of easy stories and plays; (2) accompanying practice, as before, in the translation into German of easy variations upon the matter read, and also in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments of the grammar, directed to the ends of enabling the pupil, first, to use her knowledge with facility in the formation of sentences, and, secondly, to state her knowledge correctly in the technical language of grammar.

Stories suitable for the elementary course can be selected from the following list: Andersen's *Märchen* and *Bilderbuch ohne Bilder*; Arnold's *Fritz auf Ferien*; Baumbach's *Die Nonna* and *Der Schwiegersohn*; Gerstäcker's *Germelshausen*; Heyse's *L'Arrabbiata*, *Das Mädchen von Treppi*, and *Anfang und Ende*; Hillern's *Höher als die Kirche*; Jensen's *Die braune Erica*; Leander's *Träumereien* and *Kleine Geschichten*; Seidel's *Märchen*; Stökl's *Unter dem Christbaum*; Storm's *Immensee* and *Geschichten aus der Tonne*; Zschokke's *Der zerbrochene Krug*.

Among the shorter plays the best available are perhaps Benedix's *Der Prozess*, *Der Weiberfeind*, and *Günstige Vorzeichen*; Elz's *Er ist nicht eifersüchtig*; Wichert's *An der Majorsecke*; Wilhelmi's *Einer muss heiraten*. It is recommended, however, that not more than one of these plays be read. The narrative style should predominate. A good selection of reading matter for the second year would be Andersen's *Märchen*, or *Bilderbuch*, or Leander's *Träumereien*, to the extent of, say, forty pages. After that such a story as *Das kalte Herz*, or *Der zerbrochene Krug*; then *Höher als die Kirche*, or *Immensee*; next a good story by Heyse, Baumbach, or Seidel; lastly *Der Prozess*.

b. Intermediate (counting one unit)

THE AIM OF THE INSTRUCTION.—At the end of the intermediate course the pupil should be able to read at sight German prose of ordinary difficulty, whether recent or classical; to put into German a connected passage of simple English paraphrased from a given text in German; to answer any grammatical questions relating to usual forms and essential principles of the language, including syntax and word-formation; and to translate and explain (so far as explanation

may be necessary) a passage of classical literature taken from some text previously studied.

THE WORK TO BE DONE.—The work should comprise, in addition to the elementary course, the reading of about 400 pages of moderately difficult prose and poetry, with constant practice in giving, sometimes orally and sometimes in writing, paraphrases, abstracts, or reproductions from memory of selected portions of the matter read, also grammatical drill upon the less usual strong verbs, the use of articles, cases, auxiliaries of all kinds, tenses and modes (with special reference to the infinitive and subjunctive), and likewise upon word-order and word-formation.

The intermediate course is supposed to be the elementary course, plus one year's work at the rate of not less than four recitations a week. Suitable reading matter for the third year can be selected from such works as the following: Ebner-Eschenbach's *Die Freiherren von Gemperlein*; Freytag's *Die Journalisten* and *Bilder aus der deutschen Vergangenheit*—for example, *Karl der Grosse*, *Aus den Kreuzzügen*, *Doktor Luther*, *Aus dem Staat Friedrichs des Grossen*; Fouqué's *Undine*; Gerstäcker's *Irrefahrten*; Goethe's *Hermann und Dorothea* and *Iphigenie*; Heine's poems and *Reisebilder*; Hoffmann's *Historische Erzählungen*; Lessing's *Minna von Barnhelm*; Meyer's *Gustav Adolfs Page*; Moser's *Der Bibliothekar*; Riehl's *Novellen*—for example, *Burg Neideck*, *Der Fluch der Schönheit*, *Der stumme Ratsherr*, *Das Spielmannskind*; Rosegger's *Waldheimat*; Schiller's *Der Neffe als Onkel*; *Der Geisterseher*, *Wilhelm Tell*, *Die Jungfrau von Orleans*, *Das Lied von der Glocke*, *Balladen*; Scheffel's *Der Trompeter von Säckingen*; Uhland's poems; Wildenbruch's *Das elde Blut*.

GREEK

Elementary (counting three units)

a. i. Grammar. The common forms, idioms, and constructions, and the general grammatical principles of Attic Greek prose.

ii. Elementary Prose Composition. Translation into Greek of detached sentences to test the candidate's knowledge of grammatical constructions.

The examination in the two subjects immediately preceding will be based on the first two books of Xenophon's *Anabasis*.

Greek a. i. and ii. is considered a single, indivisible subject.

b. Xenophon. The first four books of the *Anabasis*.

c. Homer. The first three books of the *Iliad* (omitting II, 494–end) and the constructions, poetical forms, and prosody of Homer's *Iliad*.

f. Prose Composition. Translation into Greek of continuous prose based on Xenophon and other Attic prose of similar difficulty.

g. Sight Translation of Prose. Translation into English at sight based on prose of no greater difficulty than Xenophon's *Anabasis*.

Advanced (counting one unit)

Candidates offering Advanced Greek will be required to have covered substantially the same ground as that included under Greek 11-12 with 3-4 or 5-6. In Homer, for which no equivalent will ordinarily be accepted, the minimum requirement will be 1200 lines in addition to the amount offered for the elementary examination. The candidate must also offer Herodotus, Book VI, and Plato's Apology, and in prose composition at least fifteen exercises in Spieker's Greek Prose Composition. If candidates wish to offer equivalents for any of the subjects named, they must designate them when they apply for examination in this subject.

HISTORY**Elementary (counting one or two units)**

NOTE.—Each of the four divisions, *a*, *b*, *c*, and *d*, counts one (1) unit. Candidates may offer any one (1) or any two (2) of the divisions without restriction.

a. Ancient history, including a brief introductory study of the Oriental peoples, and early mediæval history to the death of Charlemagne, with due reference to art, literature, and government.

b. Mediæval and modern history, from the death of Charlemagne to the present time, with due reference to the growth of the state-system.

c. English history, with due reference to social and political development.

d. American history, with the elements of civil government.

On examination a candidate must show such general knowledge of the subject in each division offered as may be acquired from the study of an accurate text-book of not less than three hundred pages. Since the questions will be so framed as to require comparison and the use of judgment rather than mere exercise of memory on the part of the pupil, it is recommended that the teacher prescribe a course of supplementary reading of not less than three hundred pages, dealing with the more important periods and events in each division offered. Geographical knowledge will be tested by requiring the location of places, boundaries, and movements on an outline map.

Advanced (counting one unit)

Candidates offering advanced history will be required to have performed work of the same kind, amount, and quality as that required for History A1-A2—the course prescribed in Barnard College. The work done at school, therefore, should be substantially identical with that course, the nature of which is explained in a syllabus that may be obtained at the University Bookstore. Those candidates who desire to offer history as an advanced subject must have offered

for elementary history either *a* and *b* or *c* and *d* and must present themselves for examination upon the two divisions *which they did not offer as an elementary subject*. The examination will presuppose superior ability on the part of the candidate to understand the significance of historical events, movements, or tendencies, to discern similarities and contrasts and to combine results. Especial care should be exercised, therefore, in the selection of the supplementary reading on the more important periods and events in each of the two divisions.

As further evidence of proficiency, satisfactory written work must be presented in the form of a note-book, or bound collection of notes (see Submission of Note-books, p. 49) which must contain not less than five thousand words on each division offered, and must show practice in at least three of the following exercises.

- (a) Notes and digests of reading outside of the text-books.
- (b) Written recitations requiring the use of judgment, and the application to new questions of knowledge already gained.
- (c) Written parallels between historical characters, events, or periods.
- (d) Brief studies of topics limited in scope, prepared outside the class-room and illustrated by some reference to contemporary material.
- (e) Historical maps or charts showing explorations, migrations, conquests, territorial changes, or social phenomena.

ITALIAN

Elementary (counting two units)

THE AIM OF THE INSTRUCTION.—At the end of the course the pupil should be able to pronounce Italian accurately, to read at sight easy Italian prose, to put into Italian simple English sentences taken from the language of everyday life, or based upon a portion of the Italian text read, and to answer correctly questions on the rudiments of the grammar, as defined below.

THE WORK TO BE DONE.—During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the conjugation of the regular and the more common irregular verbs, the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax; (3) abundant exercises illustrating the principles of grammar; (4) the reading and accurate rendering into good English of from 100 to 175 duodecimo pages of graduated texts, with the translation into Italian of easy variations of the sentences read; (5) writing Italian from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of modern prose from different authors and of easy poetry; (2) practice in translating Italian into English, and English variations of the text into Italian; (3) continued study of the elements of grammar and of syntax; (4) mastery of all but the

rare irregular verb-forms and of the simpler uses of the moods and tenses; (5) writing Italian from dictation.

Suitable texts for the second year are: E. DeAmicis' *Cuore*; G. Giacosa's *Acquazzoni in montagna*; P. Zambri's *Il caporale di settimana*; G. Gozzi's *Poesie e prosce*, scelte da A. Pippi; G. C. Abba's *Da Quarto al Volturno*; Guido Zalorsi's *Guardare e pensare*; S. Zarira's *Il Signor Io*; A. Stoppani's *Il bel paese*.

LATIN

Elementary (old requirements) (counting four units)

NOTE.—Candidates for admission to the A.B. course must offer *a*, *c*, *d*, *l*, and *m*, to secure the four (4) prescribed units. Candidates for admission to the B.S. course or to the general two-years' course, may offer *a* and either *c* or *d* to obtain two (2) units of credit.

a. i. Grammar. The inflections; the simpler rules for composition and derivation of words, syntax of cases and verbs, structure of the sentence in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive.

ii. Elementary Prose Composition. Translation into Latin of detached sentences and very easy, continuous prose based upon Cæsar and Cicero.

Latin a. i. and ii. is considered a single, indivisible subject.

c. Cicero. Any six orations from the following list, but preferably the first six mentioned:

The four orations against Catiline, Archias, and the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.

d. Virgil. The first six books of the *Æneid*, and so much of prosody as relates to accent, versification in general, and the dactylic hexameter.

l. Prose Composition. Translation into Latin of continuous prose of moderate difficulty based on Cicero.

m. Elementary Sight Translation of Prose. Translation into English at sight, based exclusively on prose of no greater difficulty than the easier parts of Cicero's orations.

At the entrance examinations to be held in June and September, 1911, and in January, 1912, candidates for admission may offer either the present requirements, or the new requirements as defined below. But only the new requirements may be offered at the examinations to be held in June, 1912, and thereafter.

Elementary (new requirements) (counting four units)

NOTE.—Candidates for admission to the A.B. course must offer *cp*, *dq* and *l*, to secure the four (4) prescribed units. Candidates for admission to the B.S. course or the general two-years' course, may offer *a* and either *cp* or *dq* to obtain two (2) units of credit.

a. i. Grammar. The inflections; the simpler rules for composition and derivation of words; syntax of cases and verbs; structure of the

sentence in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive.

ii. Elementary prose composition. Translation into Latin of detached sentences and very easy continuous prose based upon Cæsar and Cicero.

Latin a. i. and ii. is considered a single, indivisible subject.

cp. Cicero and sight translation of prose.

i. Prescribed reading: the oration for the Manilian Law and the oration for Archias.

ii. Sight translation of prose of no greater difficulty than ordinary passages of Cicero's orations.

Candidates must deal satisfactorily with both these parts of the paper, or they will not receive credit for either part.

dq. Virgil and sight translation of poetry.

i. Prescribed reading: Virgil's *Æneid*, I, II, and either IV or VI at the option of the candidate, with questions on the subject-matter, literary and historical allusions, and prosody.

ii. Sight translation of poetry of no greater difficulty than Virgil's *Æneid*.

Candidates must deal satisfactorily with both these parts of the paper, or they will not receive credit for either part.

l. Prose composition. The examination will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose. The words, constructions, and range of ideas called for will be such as are common in the reading of the preparatory course of four years.

The foregoing requirements are in substance identical with those recommended for adoption by the American Philological Association at its annual meeting in December, 1909, viz.:

I. Amount and Range of the Reading Required

1. The Latin reading required of candidates for admission to college, without regard to the prescription of particular authors and works, shall be not less *in amount* than Cæsar, Gallic War, I-IV; Cicero, the orations against Catiline, for the Manilian Law, and for Archias; Virgil, *Æneid*, I-VI.

2. The amount of reading specified above shall be selected by the schools from the following authors and works: Cæsar (Gallic War and Civil War) and Nepos (Lives); Cicero (orations, letters, and *De Senectute*) and Sallust (Catiline and Jugurthine War); Virgil (*Bucolics*, *Georgics*, and *Æneid*) and Ovid (*Metamorphoses*, *Fasti*, and *Tristia*).

II. Subjects and Scope of the Examinations

1. **TRANSLATION AT SIGHT.** Candidates will be examined in translation at sight of both prose and verse. The vocabulary, constructions, and range of ideas of the passages set will be suited to the preparation secured by the reading indicated above.

2. **PRESCRIBED READING.** Candidates will be examined also upon the following prescribed reading: Cicero, orations for the Manilian Law and for Archias, and Virgil, *Æneid*, I, II, and either IV or VI at the option of the candidate, with questions on subject-matter, literary and historical allusions, and prosody. Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part.

3. **GRAMMAR AND COMPOSITION.** The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose. The words, constructions, and range of ideas called for in the examinations in composition will be such as are common in the reading of the year, or years, covered by the particular examination.

“Exercises in translation at sight should begin in school with the first lessons in which Latin sentences of any length occur, and should continue throughout the course with sufficient frequency to insure correct methods of work on the part of the student. From the outset particular attention should be given to developing the ability to take in the meaning of each word—and so, gradually, of the whole sentence—just as it stands; the sentence should be read and understood in the order of the original, with full appreciation of the force of each word as it comes, so far as this can be known or inferred from that which has preceded and from the form and the position of the word itself. The habit of reading in this way should be encouraged and cultivated as the best preparation for all the translating that the student has to do. No translation, however, should be a mechanical metaphor. Nor should it be a mere loose paraphrase. The full meaning of the passage to be translated, gathered in the way described above, should finally be expressed in clear and natural English.

“A written examination cannot test the ear or tongue, but proper instruction in any language will necessarily include the training of both. The school work in Latin, therefore, should include much reading aloud, writing from dictation, and translation from the teacher’s reading. Learning suitable passages by heart is also very useful, and should be more practised.

“The work in composition should give the student a better under-

standing of the Latin he is reading at the time, if it is prose, and greater facility in reading. It is desirable, however, that there should be systematic and regular work in composition during the time in which poetry is read as well; for this work the prose authors already studied should be used as models.

"Increased stress upon translation at sight in entrance examinations is not recommended solely upon the ground of the merits of this test of the training and the ability of the candidate for admission to college. Two other considerations had great weight with the commission: the desirability of leaving the schools free to choose, within reasonable limits, the Latin to be read by their students, and the possibility of encouraging students and teachers alike to look upon the school work as directed toward the mastery of the laws of language and the learning to read Latin, rather than the passing of examinations of known content, a superficial knowledge of which may be gained by means unprofitable in themselves and in their effect upon the student's habits even vicious. The commission is supported in this recommendation by resolutions passed by the American Philological Association, the Classical Association of New England, the Classical Association of the Atlantic States, and various smaller organizations of teachers. Moreover, the recommendation is in line with the practice of other countries and the present tendency in our own country.

"The adoption by the colleges of the definitions of requirements formulated by the commission will not necessitate any change in the reading of the schools, and there is no reason to believe that the usual course of four books of the Gallic War, six orations of Cicero, and six books of the *Æneid* will be at once generally abandoned or greatly modified. The course of study is not so likely to change as the methods of study. The commission feels, however, that it is wise to open the way for a wider range of reading, and that the schools should have the right to select the material to be read, the colleges contenting themselves with evidence that the reading has been so done as to furnish the right sort of training and the necessary preparation for their work. A flexible course of reading has many advantages. A change may be made when an author or style becomes wearisome or has grown so familiar that the change makes for a maximum of accomplishment, and the student who must repeat a year's work will generally do better if he has new reading. Besides, all authors and works are not equally suitable for all schools; difference in age and grasp should be taken into account, and students usually read with most interest and profit that to which their teachers come with most enthusiasm. The teacher, too, should have some incentive to increase his own familiarity with the literature.

"It will be noticed that the amount of reading has not been diminished from the requirements now in force. Experience shows that the substitution of sight-examinations for examinations in prescribed work

has a tendency to increase rather than reduce the amount of reading. It will be noticed, also, that the choice of reading has not been left entirely to the schools. In addition to the more definite prescription of works for examination, the requirements limit the reading in school to certain works not usually read in colleges. Only schools which read more than the required amount will be free to go beyond these bounds."

Extract of Report of Commission of Fifteen on College Entrance Requirements in Latin made to American Philological Association in December, 1909.

Advanced (counting one unit)

Candidates offering Advanced Latin will be required to have covered substantially the same ground as that included under the course prescribed for freshmen. In Horace, for which no equivalent will ordinarily be accepted, the minimum requirement will be the first and third books of the Odes, with a satisfactory knowledge of the prosody. The candidate must also offer Livy, Book XXI entire, and Book XXII, chapters 41-53, inclusive (or Virgil, Eclogues, and selections from Ovid), and in prose composition fifteen exercises from Part I and ten exercises from Part II, of Gildersleeve and Lodge's Prose Composition.

If candidates wish to offer equivalents for any of the subjects named, they must designate them when they apply for examination in this subject.

MATHEMATICS

Elementary (counting two and one-half units)

a. Elementary algebra.

i. The four fundamental operations for rational algebraic expressions; factoring, determination of highest common factor and lowest common multiple by factoring; fractions, including complex fractions, ratio and proportion; linear equations, both numerical and literal, containing one or more unknown quantities; problems depending on linear equations; radicals, including the extraction of the square root of polynomials and of numbers; exponents, including the fractional and negative.

ii. Quadratic equations, both numerical and literal; simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations; problems depending upon quadratic equations; the binomial theorem for positive integral exponents; the formulas for the n th term and the sum of the terms of arithmetic and geometric progressions, with applications.

It is assumed that pupils will be required throughout the course to solve numerous problems which involve putting questions into equations. Some of these problems should be chosen from mensura-

tion, from physics, and from commercial life. The use of graphical methods and illustrations, particularly in connection with the solution of equations, is also expected.

c. Plane geometry.

The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons, and the measurement of the circle; the solution of numerous original exercises, including loci problems; applications to the mensuration of lines and plane surfaces.

Advanced (counting one-half, one, or one and a half units)

A candidate may offer one or more of the following subjects, each of which is equivalent to one-half unit.

† For admission to the college course in Analytic Geometry in the freshman year, the student must have offered Plain Trigonometry at entrance and must take in the freshman year those parts of Mathematics A the equivalents of which were not offered at entrance.

b. Advanced Algebra. Permutations and combinations, limited to simple cases; complex numbers, with graphical representation of sums and differences; determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations; numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes's rule of signs and Horner's method, but not Sturm's functions or multiple roots.

d. Solid geometry.

The usual theorems and constructions of good text-books; including the relations of planes and lines in space; the properties and measurements of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle; the solution of numerous original exercises, including loci problems; applications to the mensuration of surfaces and solids.

f. Plane trigonometry.

Definitions of relations of the six trigonometric functions as ratios, circular measurement of angles; proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product of expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas; solution of trigonometric equations of a simple character; theory and use of logarithms (without the introduction of work involving infinite series); the solution of right and oblique plane triangles, and practical applications.

MUSIC (counting one unit)

The candidate may offer either *a* or *b*.

a. Musical Appreciation (counting one unit)

The candidate is expected to have:

1. A general knowledge of the principal musical forms—song, classic, dance, fugue, sonata (all movements), symphony—and of their historical development.

2. A general knowledge of the lives and environment of at least ten composers, including Bach, Mozart, Beethoven, Schubert, Chopin, and five of the following: Purcell, Handel, Gluck, Haydn, Cherubini, Weber, Rossini, Glinka, Mendelssohn, Schumann, Wagner, Verdi.

3.¹ Familiarity with certain designated works. The works set for 1910, and 1911 are:

<i>Bach:</i>	Prelude I and Fugue I from Well-Tempered Clavichord. Gavotte from Sixth Violoncello Suite.
<i>Handel:</i>	Air with Variations ("The Harmonious Blacksmith").
<i>Haydn:</i>	Largo from String Quartet (op. 74, No. 3).
<i>Mozart:</i>	Overture to "The Magic Flute." Symphony in G Minor (entire).
<i>Beethoven:</i>	Sonata Pathétique (op. 13, entire). Larghetto from Second Symphony. Allegro con Brio from Fifth Symphony.
<i>Weber:</i>	Overture to "Der Freischütz."
<i>Schubert:</i>	Moment Musical in F Minor (op. 94, No. 3). Song, "The Erl-King." Song, "Hark, Hark, the Lark."
<i>Mendelssohn:</i>	Scherzo from "Midsummer Night's Dream." "Spinning Song" (op. 67, No. 4).
<i>Chopin:</i>	Polonaise (op. 40, No. 1). Nocturne (op. 37, No. 2).
<i>Schumann:</i>	"Aufschwung" (op. 12, No. 2). Song, "Im wunderschönen Monat Mai."
<i>Wagner:</i>	Overture to "Tannhäuser." Siegfried's Funeral March, from "Götterdämmerung."

In the examination in 3 the candidate will be expected to identify characteristic portions of the works set, when played by the examiner and to give intelligent information concerning the form and character of the works themselves. The test will not require ability to perform nor to read from printed music.

¹ The examination in 3 will be held only in September and in January, and will be open only to candidates who have passed the examination in 1 and 2.

b. Harmony (counting one unit)

The candidate should have acquired:

1. The ability to harmonize, in four vocal parts, simple melodies of not fewer than eight measures, in soprano or in bass—these melodies will require a knowledge of triads and inversions, of diatonic seventh chords and inversions, in the major and minor modes; and of modulation, transient or complete, to nearly-related keys.

2. Analytical knowledge of ninth chords, all non-harmonic tones, and altered chords (including augmented chords). [Students are encouraged to apply this knowledge in their harmonization.]

It is urgently recommended that systematic ear-training (as to interval, melody, and chord) be a part of the preparation for this examination. Simple exercises in harmonization at the pianoforte are recommended. The students will be expected to have a full knowledge of the rudiments of music, scales, intervals, and staff-notation, including the terms and expression-marks in common use.

PHYSICS (counting one unit)

The candidate's preparation in physics should include:

a. The study of a standard text book, supplemented by the use of many varied numerical problems, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws in elementary physics.

b. Instruction by lecture-table demonstrations, to be used mainly as a basis for questioning upon the general principles involved in the pupil's laboratory investigations.

c. Individual laboratory work, comprising at least thirty-five exercises distributed about as follows: mechanics 13, sound 3, heat 5, light 6, electricity 8. An indexed note-book of the experiments must be submitted. (See Submission of Note-books, page 49.)

PHYSIOGRAPHY (counting one unit)

NOTE.—This is identical with the subject called Geography by the College Entrance Examination Board.

The candidate's preparation in physiography should include the study of one of the modern text-books by Davis, Tarr, Dryer, or Gilbert and Brigham, together with an approved laboratory and field course of at least forty exercises actually performed by the candidate. Each division of the subject should receive approximately the same proportion of attention in the laboratory as in the class-work. It is suggested that the exercises be divided somewhat as follows: Earth as a globe, 5; Ocean, 5; Atmosphere, 12; Land, 18. An indexed note-book containing the record of these exercises must be submitted. (See Submission of Note-books, page 49.)

SPANISH

Elementary (counting two units)

THE AIM OF THE INSTRUCTION.—At the end of the course the pupil should be able to pronounce Spanish accurately, to read at sight easy Spanish prose, to put into Spanish simple English sentences taken from the language of everyday life, or based upon a portion of the Spanish text read, and to answer questions on the rudiments of the grammar, as defined below.

THE WORK TO BE DONE.—During the first year the work should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the conjugation of the regular and the more common irregular verbs, the inflection of nouns, adjectives, and pronouns, and the elementary rules of syntax; (3) exercises containing illustrations of the principles of grammar; (4) the reading and accurate rendering into good English of from 100 to 175 duodecimo pages of graduated texts, with translation into Spanish of easy variations of the sentences read; (5) writing Spanish from dictation.

During the second year the work should comprise: (1) the reading of from 250 to 400 pages of modern prose from different authors; (2) practice in translating Spanish into English, and English variations of the text into Spanish; (3) continued study of the elements of grammar and syntax; (4) mastery of all but the rare irregular verb-forms and of the simpler uses of the moods and tenses; (5) writing Spanish from dictation.

Suitable texts for the second year are: Valera's *El pájaro verde*; Alarcón's *El final de Norma*, *El capitán Veneno*; Valdès's *José*; Galdós's *Doña Perfecta*; *Marianela*; Padre Isla's version of *Gil Blas*; Carrion and Aza's *Zaragüeta*.

ZOÖLOGY (counting one unit)

The following outline includes the principles of zoölogy which are indispensable to a general survey of the science. It is planned for a full year's course. It is not intended to indicate order of study of the topics—this must be left to the teacher and the text-book.

1. The general natural history—including general external structure in relation to the adaptations, life histories, geographical range, relations to other plants and animals, and economic relations—of common vertebrates and invertebrates so far as representatives of these groups are obtainable in the locality where the course is given. The types suggested are a mammal, bird, lizard, snake, turtle, newt, frog, dogfish or shark, bony fish, clam, snail, starfish, earthworm, planarian, hydra, sea-anemone, paramœcium. In the case of arthropods, pupils should become familiar with common crustaceans, spiders, myriapods, and insects representing at least five orders. Actual examination of

common animals with reference to the above points should be supplemented by reading giving natural-history information.

It is not expected that there will be time for making extensive note-books on the natural-history work; rather will the work in this line take the form of laboratory demonstrations. So far as time permits, drawings and notes should be made. The note-book mentioned below should contain at least drawings on the external structure of four animals not studied under Section 3, preferably two insects, a mollusk, and a second vertebrate.

2. The classification of animals into phyla and leading classes (except the modern subdivisions of the worms) and the great characteristics of these groups—in the case of insects and vertebrates the characteristics of the prominent orders. The teaching of classification should be by practical work so as to train the pupil to recognize animals and to point out the chief taxonomic characteristics. The meaning of species, genera, and larger groups should be developed by constructive practical work with representatives of insect or vertebrate orders.

3. The general plan of external and internal structure, not the anatomical minutiae, of one vertebrate (preferably frog or fish) in general comparison with human body; an arthropod (preferably a decapod); an annelid (earthworm or *Nereis*); a coelenterate (hydroid, hydra, or sea anemone); a protozoön (a ciliate, and amœba when possible). In place of any of the above types not locally available there may be substituted a second vertebrate, an insect, a mollusk, or an echinoderm. Tissues, the study of which is recommended as optional,¹ should be examined first with the unaided eye, in such a structure as a frog's leg, and then with a microscope demonstrate the relations of cells and intercellular substance in epithelium and cartilage; and, if possible, in other tissues. The functions of the chief tissues and their positions in the body of a vertebrate should be pointed out.

4. (a) The general physiology of above types, involving the essentials of digestion, absorption, circulation (respiration), cell-metabolism, secretion, excretion, and nervous functions. This should apply comparatively the essentials of elementary work in human physiology. Demonstrations and experiments, such as are suggested in high-school text-books on human physiology, should be introduced, or recalled if not previously well presented in elementary physiology, in connection with discussion of the chief functions. As far as practicable structure and function should be studied together.

(b) Comparison of the general life-processes in animals and plants (in connection with botany if zoölogy is first studied).

5. The very general features of asexual reproduction of a protozoön (preferably *Paramœcium*); alteration of generations in hydroids; reproduction and regenerations of *Hydra*; the very general external

¹ Topics marked "optional" are regarded as desirable for the best high-school zoölogy, but will not be required in examinations.

features of embryological development in a fish or frog; and (*optional*) the general cellular nature (not centrosomes and the like) of germ-cells, fertilization and cell-division in developing eggs should, as far as possible, be demonstrated and briefly described. Also, the most interesting features of development should be pointed out in the case of other animals studied.

6. The prominent evidence of relationship, suggesting evolution, within such groups as the decapods, the insects, and the vertebrates should be demonstrated. A few facts indicating the struggle for existence, adaptation to environment, variations of individuals, and man's selective influence should be pointed out; but the factors of evolution and the discussion of its theories should not be attempted.

7. (*Optional*) Some leading facts regarding the epoch-making discoveries of biological history and the careers of such eminent naturalists as Darwin, Huxley, Pasteur, and Agassiz should be presented.

The above outline of a course in general zoölogy should be developed on the basis of a course of laboratory study guided by definite directions. This should be supplemented by the careful reading of at least one modern elementary text-book in general zoölogy. At least two thirds of the time should be devoted to the practical studies of the laboratory. If good nature studies have not preceded the course in high-school zoölogy, pupils should be encouraged to do supplementary work in the line of natural history. A note-book with carefully labelled outline drawings of the chief structures studied anatomically (Section 3), and the drawings mentioned under natural history (Section 1), and with notes on demonstrations and in explanation of drawings, with dates and an index, must be submitted. It will be graded as one third of the examination. (See Submission of Note-books, below.)

SUBMISSION OF NOTE-BOOKS, DRAWINGS, ETC.

All work submitted must be duly certified to in ink by the teacher in the following form:

I certify that this note-book is a true and original record of work actually performed by.....while in attendance at.....
.....during the year 19...
Instructor in.....

Drawings should bear a similar certification, or, in case of work not done under instruction, should be accompanied by the candidate's own signed declaration.

All note-books, unless otherwise specified, should be submitted at the time of examination. Candidates desiring their return should apply after the June examinations to the Secretary of the College Entrance Examination Board; after the September and January examinations to the Secretary of the University.

English exercise books, submitted in lieu of examination, advanced English essays, or advanced history note-books should be sent to the Secretary of the University *at least two weeks before the examinations begin*. Within ten days the candidate will be informed whether or not the work submitted has been accepted. English exercise books will *not* be returned to the writers.

All note-books uncalled for one year from the date of submission will be destroyed.

REGISTRATION AND ENROLMENT

All properly qualified students, with the exception of those classed as non-matriculated special students (see p. 27), may matriculate at Barnard College either as candidates for a degree or as special students who are permitted to attend such courses as they are qualified to take but who are not enrolled as candidates for a degree.

Matriculation

Before attending any academic exercise every student must comply with the regulations in regard to registration and payment of fees.

Registration She must present herself in person to furnish the information necessary for the College records.

Every new student must also at the time of registration file a statement of the courses which the Provost, on the recommendation of the Committee on Instruction, has authorized her to pursue.

Enrolment for Courses

Students already in College are required to give notice of their choice of elective courses for the ensuing year to the Registrar on or before Friday, May 6, 1910. Proper blanks for this purpose will be provided by the Registrar's office. Students should not confuse the filing of elective blanks with registration.

The office of the Registrar will be open for registration from Wednesday, September 21, to Tuesday, September 27, 1910, and on Tuesday February 7, 1911. New students may register also on the day following each of these periods.

Students registering later must pay an additional fee of \$5. They may, however, if unable through no fault of their own to complete their registration, file a provisional statement within the statutory period. Students will be held directly accountable for absences incurred owing to late registration.

Every student who holds a scholarship must report at the office of the Registrar not later than the first day of the academic year and obtain a scholarship certificate signed by the Dean. This certificate must be handed to the Bursar at the time of registration.

The Provost, on the recommendation of the Committee on Instruction may for reasons of weight grant a leave of absence to a student in good standing.

Leave of Absence

An honorable discharge is granted to any adult student in good

standing, who may desire to withdraw from the college; a minor must submit the written assent of her parents or guardians. **Honorable Dismissal**

GENERAL STATEMENT REGARDING FEES AND THE REGULATIONS GOVERNING THEIR PAYMENT

All fees are payable in advance at the Bursar's Office. Every student who fails to register within the limits of time fixed by the regulations of the University shall be permitted to register only with the consent of the Provost, and by the payment of an additional fee of \$5. Students who enter late are required to pay the full charge for tuition for the half-year in which they register.

For an examination or any single series of examinations taken at any other time than at the conclusion of a course actually attended a fee of \$5 is charged.

The registration or matriculation fee must be paid at the time of entrance before an official record of a student's attendance can be noted.

The Provost may withdraw the privileges of any student who is delinquent in the payment of fees.

Checks should be made payable to the order of Barnard College, and addressed to the office of the Bursar.

Students are requested in cases of withdrawal from the college during the academic year to notify the Registrar in writing without delay. No application for a return of fees can be considered unless such notice is given at the time of withdrawal. **Withdrawal**

FEES

For Matriculation or Registration	\$ 5 00
Required of all students at entrance. This fee is payable but once and is never refunded.	
For late registration (see p. 50)	5 00
For tuition , payable at the beginning of each half-year	75 00
Students not candidates for a degree are charged at the rate of \$7.50 a half-year for each point of instruction, with a maximum fee of \$75 for each half-year. If the entire fee is less than \$100.00 the whole must be paid upon registration.	
For examination , payable in each case before the examination is held:	
For entrance (see p. 19)	5 00
For any examination or single series of examinations taken at any other time than at the conclusion of a course actually attended, whether taken prior or subsequent to admission	5 00
For the degree	15 00

For laboratory work

Botany (Courses 51, 52, 53, 54, 55, 56), each course	\$ 1 25
Botany (Courses 151, 152, 153, 154, 156, 158, 159, 160, 161, 162), each course	2 50
Chemistry (Courses 5, 6), each course	2 50
Chemistry (Courses 63, 64), each course	6 00
Chemistry (Courses 43, 44, 105, 106, 145, 146), each course	10 00
Zoölogy (Courses 1, 2, 3, 4), each course	2 50
Should Course 3 be taken in connection with Course 1, or Course 4 be taken in connection with Course 2 or Course 102, the one fee covers both courses.	
Zoölogy (Courses 5, 6, 7, 8), each course	1 25
Zoölogy (Courses 101, 102, 151, 152, 153, 154), each course	2 50
For the use of the gymnasium	7 00
Required of all students.	

DORMITORY FEES

Deposit	\$ 15 00
Payable in advance to secure assignment of room, and held until final closing of accounts for the year as security for damage to rooms, fittings or furniture, or for any other indebtedness.	
Electricity, charged for by meter	
Board	225 00
Payable in two equal instalments in advance, on or before taking possession of room, and on February 1.	
Rent	
Payable in two equal instalments in advance, on or before taking possession of room, and on February 1.	
Single rooms	\$140-280 00
Two-room suites (for one person)	350-36 000
Three-room suites (for two persons)	440-500 00
Private bath (for one, two, or three persons)	75 00

For 1910-11 the prices of rooms on the fifth and sixth floors will be the same as those for the corresponding rooms on the fourth floor. Rooms on the seventh floor will be \$5.00 more and rooms on the eighth floor \$10.00 more than the corresponding rooms on the fourth floor; but rooms 820 and 802 will be the same prices as Rooms 720 and 702, respectively.

ESTIMATED NECESSARY EXPENSES

Board \$9 to \$17 a week.
 Matriculation fee, \$5.
 Annual tuition fee, \$150.
 Gymnasium fee, \$7.
 Text-books, from \$10 to \$20 each year.

Final examination for the degree \$15.

The total necessary expenses for a student for the academic year are believed to average about \$18 a week.

RESIDENCE HALL

Brooks Hall, the residence hall for Barnard College students, will open on Monday, September 26, 1910, and will close on Saturday, June 10, 1911. Candidates for admission or students who wish to secure accommodations in Brooks Hall during the week of the September entrance or deficiency examinations, should make arrangements directly with the Mistress of the Hall, not later than September 1.

Full information in regard to the situation and cost of rooms, the advance deposit, the charge for electric light and the residence scholarships is published in a separate pamphlet, to be had on application to the Mistress of Brooks Hall. All correspondence regarding accommodations in Brooks Hall should be addressed to the Mistress of the Hall, 607 West 116th Street, New York, N. Y. For the dormitory fees see p. 52.

The post-office address for residents is Brooks Hall, 607 West 116th Street, New York, N. Y.

THE PROGRAM OF STUDIES

Upon satisfactory completion of a curriculum arranged on one of the plans to be described below (pp. 55-56) the student is recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts or Bachelor of Science.

The principles of the program of studies are as follows:

1. The requirement for graduation is 124 points. The term point usually signifies the satisfactory completion of work requiring attendance at class one hour or in the laboratory two hours a week for one half-year.

2. Studies are either prescribed, *i. e.*, obligatory upon all candidates for a degree, or elective, *i. e.*, to be taken, with certain restrictions, at the pleasure of the student.

3. Prescribed studies, with the exception of Economics A, must be taken as far as practicable during the first two years of residence; and subjects taken in college which are continuations of subjects offered at entrance must be taken as far as possible in the first year.

4. No courses other than those specified under each half-year in the Announcement may be taken except by students specially qualified to pursue them with advantage, and with the consent of the Provost, on the recommendation of the Committee on Instruction.

5. No combination of courses amounting to less than 12 or more than 16 points may be made in any half-year without the consent of the Provost, on the recommendation of the Committee on Instruction.

6. No credit will be given for a one-hour course, unless it is taken in connection with and as a supplement to a cognate course.

7. No more than four hours of class work, or its equivalent in laboratory work, or seven hours of class work and laboratory work combined may be taken on the same day.

8. A major subject of at least 18 points, exclusive of prescribed work, must be taken under some one department before graduation.

9. Admission to courses depends upon completion of the prerequisites as stated for each course separately. In all cases the requirements as to prerequisites for any course must be completed before the beginning of the half-year in which the course is given. Where no prerequisite is stated and where no limitation is noted the course may be taken and counted for a degree by any student of the college.

10. To be recommended for a degree, a student must have made at least 84 points in actual college residence, and at least 24 of these in Barnard College. The Faculty has power to suspend this rule in individual cases; but a statute of the University forbids the granting a degree to any person who has not been a member of the University for a full academic year, *i. e.*, two half-years.

11. All requirements for a degree must be fulfilled by the candidate within six years from the time of her first matriculation as a freshman in college, whether at Barnard or elsewhere; within four and a half years from similar matriculation as a sophomore; within three years from similar matriculation as a junior; and within one and a half years from matriculation as a senior. If the candidate fails to satisfy the requirements within the time here specified, she is to lose credit for all the points gained by her toward the degree, unless, in individual cases, the Faculty shall otherwise direct.

12. No change of program, either by adding or dropping a course, may be made by a student without the written consent of the Provost, on recommendation of the Committee on Instruction. Except on the initiative of the departments or of the Committee on Instruction, such change will be allowed only in the third week after the opening of the first half-year and in the two weeks preceding the opening of the second half-year. Applications by students for change of program for the first half-year must be filed during the second week of that half-year; applications for change of program for the second half-year must be filed before that half-year begins. Until action is taken upon the application, the student must attend the courses originally named in her program.

Before final choice of elective studies, all students should consult the Committee on Instruction, and, in case of any doubt, the instructors in charge of particular courses as well. Electives must be chosen on some consistent plan. Conflicts between courses falling at the same

hours are to be avoided by careful study of the Scheme of Attendance at the end of this volume, which has been drawn up with a view to making possible for every one the selection of a reasonable number of harmonious elective courses that shall not conflict in hours with each other or with prescribed courses. It often happens that some of the courses of one department form valuable supplements to certain courses of another, so that combinations of work under two or more departments are very desirable. In all such cases the best selections can be made only after consultation with officers of one or more of the departments concerned. This applies particularly to the major subject of 18 points.

I THE PROGRAM OF STUDIES FOR THE DEGREE OF BACHELOR OF ARTS

Unless their equivalents have been offered for admission the following courses are prescribed:

English A and B.....	12 points
French A and German A.....	12 "
History A.....	6 "
Latin A or B, and Latin 19-20 or Latin 11-12.....	6 "
Mathematics A.....	6 "
Philosophy A.....	6 "
Physical Education A and B.....	4 "
Economics A.....	6 "
Chemistry 5-6 or Physics 11-12.....	6 "
Botany, Chemistry, Geology, Physics, Experimental Psychology, or Zoölogy: two half-year courses in addition to Chemistry 5-6 or Physics 11-12 or any course in science that may have been offered for admission	6 "
Major subject of.....	18 "
Free electives to complete the total of.....	124 "

II THE PROGRAM OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE

Unless their equivalents have been offered for admission the following courses are prescribed:

English A and B.....	12 points
French A and German A.....	12 "
History A.....	6 "
Mathematics A.....	6 "
Philosophy A.....	6 "
Physical Education A and B.....	4 "
Grouped work in Astronomy, Botany, Chemistry, Geography, Geology, Mineralogy, Physics, Experimental Psychology, and Zoölogy, amounting to a total of at least.....	70 "

(Of these 70 points at least 28 points shall be given in a major subject, at least 12 points in an allied minor subject, and at least 12 points in a diverse minor.)
Free electives to complete the total of..... 124 points

III. GENERAL TWO-YEARS' COURSE, NOT LEADING TO A DEGREE

This general course is specially arranged to furnish the collegiate foundation for professional work at Teachers College. It comprises 64 points of work and includes the following prescribed courses unless their equivalents have been offered for admission:

English A or a more advanced course in rhetoric.....	6 points
English Literature: two half-year courses.....	6 "
French, German, Italian, Spanish: two half-year courses in each of two modern languages, preferably French and German.....	12 "
History A or a more advanced course in history	6 "
Physical Education A and B.....	4 "
Botany, Chemistry, Geology, Physics, or Zoölogy: two half-year courses in each of two natural sciences that have not been offered for entrance, at least.....	12 "
Elective courses to complete the total of.....	64 "

In regard to the choice of elective courses a student should seek the advice of the professor in charge of her prospective major subject in Teachers College.

With the consent of the Provost of Barnard College and the Dean of Teachers College a student who has satisfactorily completed 64 points of work in Barnard College, including the courses listed above, may transfer, without examination, to the professional curriculum of Teachers College and become a candidate for a Teachers College diploma and the degree of Bachelor of Science in Education.

In consequence of the agreement on the part of Barnard College to provide the collegiate courses required by Teachers College for admission to its professional curriculum, Teachers College has withdrawn its collegiate curriculum.

IV. OPTIONS IN THE PROFESSIONAL SCHOOLS FOR CANDIDATES FOR A BARNARD COLLEGE DEGREE

A student may plan her work in such a way as to earn a professional diploma from Teachers College at the same time as her academic degree from Barnard College. With the permission of the Provost of Barnard College and the Dean of Teachers College she may transfer to Teachers College at the end of her junior year under the following provisions: A candidate for the degree of Bachelor of Arts must have completed 94 points of work in Barnard College, comprising all of the required courses, including a major subject of at least 18 points and Education
A. A candidate for the degree of Bachelor of Science must have com-

pleted 94 points of work at Barnard College, comprising all of the specifically prescribed courses and of the grouped work a major subject of at least 28 points with an allied minor subject of 12 points and Education A.

On receipt of a statement from the Faculty of Teachers College that a student so transferred has satisfactorily completed the requirements for the Bachelor's diploma in Teachers College, the student will be recommended by the Faculty of Barnard College for the degree of Bachelor of Arts or Bachelor of Science, provided she shall have fulfilled the requirements for either of those degrees as laid down in the Announcement of Barnard College.

For full details regarding the major subjects in teaching, their requirements and prerequisites in collegiate work, and the most advantageous division of work in education, the student is referred to the current Announcement of Teachers College.

GENERAL REGULATIONS REGARDING EXAMINATIONS IN COURSE, CREDIT, AND ADVANCEMENT

Two series of examinations are held every year, one in January and the other in May. These are the only *stated examinations*.

In 1911 the mid-year examinations begin on Wednesday, January 25, the final examinations on Monday, May 22.

**Stated Ex-
aminations**

No freshman, sophomore, junior, or special student absent from more than one tenth of the exercises in any course during a single half-year shall be entitled to attend the stated examination in that course. Each instance of tardiness shall be counted as half an absence. Should such student exceed the limit allowed in any course, she shall be debarred from the stated examination in that course, and may attend it only by the consent of the Provost, on recommendation of the Committee on Instruction.

Debars

Every freshman, sophomore, junior, or special student shall be required to file at the office of the Secretary an explanation of any absence or tardiness on the same day that it occurs, or, in cases where the absence has extended over an entire day or more, on the first day after return.

Special examinations are held as follows: in the first week of March of each year, and within the two weeks preceding the opening of the College in the fall.

**Special
Examinations**

Such examinations are open, by permission of the Provost, on recommendation of the Committee on Instruction, to

- (a) Students who have received an F in an *elective* course;
- (b) Students who have been absent, for imperative reasons, from the stated examination in any course;
- (c) In rare instances, for reasons of weight, to other students.

In all cases application for permission to take a special examination must be made in writing.

For any such series of examinations, or any such single examination taken at any time other than the *stated examination period* immediately following the conclusion of the course or courses involved, a fee of \$5 must be paid to the Bursar before the student is admitted to the examination.

The student's performance in a course is rated according to the following grades: A, excellent; B, good; C, fair; D, poor; F, failure.

A student who receives a mark of F in any *prescribed* course must repeat that course.

No student may count for promotion from any class to the next higher class more than six (6) points of D work. Only twenty-four (24) points of D work can be counted for a degree. Of several courses in which a student is marked D she may choose the ones to be counted.

At the end of every half-year, when all the reports are filed in the Registrar's office, additional credit for high standing is given as follows:

The mark A in courses aggregating six points of work (no course to be counted twice) entitles the student to one point of extra credit, provided she has satisfactorily completed all the work of the half-year and has not fallen below the mark B in any course.

Any student who is credited with 94 points (including all prescribed work) may receive one point of extra credit for each of two courses chosen from among those offered by any single department as counting toward a higher degree,¹ provided the quality of her work in such course be tested by an essay for which a mark of A or B is given in addition to the stated examinations. No student may receive more than one point of extra credit in one half-year under the terms of this rule.

Regular matriculated students are rated as follows:

Freshmen, those who have entrance conditions or have completed less than 26 points of college work;
 Sophomores, those who have no entrance conditions, have completed 26 points of college work, and are not required to repeat prescribed courses amounting to more than 6 points;

Juniors, those who have completed 58 points of college work including all prescribed subjects (except Economics A, one year of natural science, or such other prescribed subjects as they may have been permitted by the Provost, on recommendation of the Committee on Instruction, to postpone;

¹ I. e., Master of Arts or Doctor of Philosophy. Such courses are those offered under the Faculty of Political Science, the Faculty of Philosophy, or the Faculty of Pure Science primarily for graduate students, but open also to advanced undergraduates.

Seniors, those who have completed 94 points, including all prescribed subjects.

In all cases the requirements for promotion must be met in full before the beginning of the academic year.

A student dropped from the roll of her class will not be permitted to attend any of the exercises of the said class without the consent of the Provost, on the recommendation of the Committee on Instruction, given for reasons of weight; but she may enter the next succeeding class and pursue the course or courses in which her deficiency exists, or, in case of elective courses and with the consent of the Dean, on recommendation of the Committee on Instruction, other course or courses equivalent thereto in time, and present herself for examination in such course or courses with that class. No student dropped from the roll of her class under the provisions of this section will be accepted as a special student.

Should a student fail of advancement in two successive years, she shall be dropped from the roll of the college, unless, for reasons of weight, the Provost, on the recommendation of the Committee on Instruction, shall otherwise determine. No student dropped from the roll of the College under the provisions of this section will be accepted as a special student.

SCHOLARSHIPS

There are altogether forty scholarships and three special funds for the benefit of students who need financial aid. The value of each of these scholarships, unless otherwise stated, is \$150 annually, which sum is applicable to the fees of the year. **Number and Value**
Under certain circumstances those scholarships known as Student Scholarships may be divided between two applicants.

The scholarships are of two sorts, competitive and non-competitive. The former are awarded for excellence in entrance examinations on the nomination of the Committee on Admissions. The latter are awarded by the Committee of the Trustees on Scholarships, on the nomination of the Faculty Committee on Scholarships, to students needing financial aid who have passed at least one year in college. They are held, unless otherwise stated, *for one year only*. **Character**

Two scholarships may not be held by the same person. Should two scholarships be assigned to the same student in one year, she must at once make choice as to which she will retain. **Conditions**
If a student fail to maintain a grade of at least C in all courses which she pursues, or if for any other reason she show herself an unsatisfactory candidate, she shall forfeit her scholarship and, in the case of non-competitive scholarships, shall be ineligible for re-election the following year. No student with entrance conditions unremoved, or with a grade below C in the year previous to that in

which she is asking for help, will be eligible for a scholarship. For competitive scholarships complete entrance examinations in all subjects, *i. e.*, a total of fourteen and a half (14½) units are required. These may be taken in January or in June unless otherwise stated.

Before the first of April of each year all applications for non-competitive scholarships, accompanied with full credentials, must be filed

Application at the Dean's office upon special blanks to be obtained there. Candidates for the competitive scholarships to be awarded on the basis of the June examinations should, in their application to the Secretary of the College Entrance Examination Board (see p. 19), mention the Barnard College scholarships for which they are competing. In order to qualify for the receipt of her stipend, the holder of a scholarship should report at the office of the Registrar not later than the first day of the academic year.

COMPETITIVE SCHOLARSHIPS

These, subject to the foregoing general regulations for scholarships, are as follows:

- 1. *Open to all Students:*
 - Trustees' Competitive Scholarship..... 1
Awarded annually by the Board of Trustees to the student who in June passes the best complete entrance examination in all subjects. It may be held for one year only.
 - Jessie Kaufmann Scholarship..... 1
Founded in 1902 by Mr. Julius Kaufmann in memory of his daughter, Jessie Kaufmann. The annual income from \$4,000 is awarded on the merits of the entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course.
- 2. *Open to particular Students:*
 - Brooklyn Scholarships 12
Founded in 1895 by the Trustees of Columbia University in recognition of the gift to Columbia University by President Low of a memorial building for the University Library. They are open to students who have received their training in either the public or the private schools of Brooklyn, N. Y., and are residents of that city. Three of these scholarships will be awarded annually to qualified competitors who pass in June, without conditions, the best complete entrance examinations in all subjects. They may be held for the entire college course, but a holder, while retaining the title "Brooklyn Scholar," may transfer the income to any properly qualified candi-

date from Brooklyn without having her action made a matter of public record.

Lucille Pulitzer Scholarships.	3
Founded by Mr. Joseph Pulitzer in memory of his daughter, Lucille Pulitzer. They are awarded to undergraduate students entering the college from the city of New York who are found to have passed excellent entrance examinations and to be worthy of financial aid. They may be held for the first three years of the college course only.	

The first (a), founded in 1899, is the income of \$10,000 and will be awarded in 1912, 1915, and corresponding years. The second and third, given in 1903, represent each one half the income of \$15,000; (b) will be awarded in 1910 and 1913, (c) in 1911 and 1914, and corresponding years.

NON-COMPETITIVE SCHOLARSHIPS

These, subject to the general regulations for scholarships, are as follows:

1. *Open to all Students:*

Student Scholarships.	12
Given by the Committee of the Trustees on Scholarships. They are supported by the income of a permanent fund that is being established and that at present amounts to \$9,680 and of the Arthur Brooks Fund (see below). The remainder is supplied by annual provision. These are not, as a rule, assigned to incoming students.	
Ella Weed Scholarship.	1
Founded by the pupils of Miss Anne Brown's School in memory of Miss Ella Weed, who was chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence.	
Veltin School Scholarship.	1
Founded in 1905 by the alumnae of Mlle. Veltin's School.	
Jennie B. Clarkson Scholarship.	1
Founded in 1898 by the late Mrs. W. R. Clarkson.	
Emily James Smith Scholarship.	1
Founded in 1899 by Miss Emily H. Bourne in honor of Miss Smith, then Dean of Barnard College. It is awarded in conference with the founder.	
Anna E. Barnard Scholarship.	1
Founded in 1899 by Miss Emily H. Bourne in honor of Mrs. John G. Barnard. It is awarded in conference with the founder.	

- Brearley School Scholarship I
 Founded in 1899 by pupils and former pupils of the Brearley School.
- Eliza Taylor Chisholm Memorial Scholarship..... I
 Founded in 1901 by the Alumnae Association of Miss Chisholm's School, which association reserves the privilege of precedence for such candidates as it may recommend.
- Graham School Scholarship..... I
 Founded in 1907 by the Graham Alumnae Association.
2. *Open to Particular Students:*
- Mrs. Donald McLean Scholarship..... I
 Founded in 1906 by the New York Chapter of the Daughters of the American Revolution. It is awarded, in conference with a representative of the Chapter, to a deserving student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course.
- Emma Hertzog Scholarship..... I
 Founded in 1904 by gifts from residents of Yonkers, N. Y. It is awarded, in conference with the Faculty of the Yonkers High School, to a graduate of that school.
- Mrs. Henry Clarke Coe Scholarship..... I
 Given in 1904 by the National Society of New England Women. It is awarded, on the nomination of the chairman of the Scholarship Committee of the above Society, to a student from New England or of New England parentage, and after the award is once made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship.
3. *Special Funds for the Aid of Needy and Deserving Students:*
- Arthur Brooks Fund.
 A fund of \$5,000, given in 1897 by Miss Olivia E. Phelps Stokes as a memorial of the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence. This fund is at present applied to the maintenance of the Student Scholarships.
- Fiske Scholarship Fund.
 A fund of \$5,000, given by the late Mrs. Martha T. Fiske-Collord, the income of which is placed at the disposal of the Dean of Barnard College.
- George W. Smith Scholarship Fund.
 A fund of \$5,000, given in 1906 by the late Mrs. Martha T. Fiske-Collord as a memorial to Mr. George W. Smith

who was a Trustee of Barnard College. The income of the fund is placed at the disposal of the Dean of the College.

PRIZES

The following prizes are awarded annually, on the recommendation of the appropriate departments of the Faculty of Barnard College, in accordance with the special conditions named below. No prize will be awarded to any student who falls below grade C in any course during the year in which she is a competitor.

HERRMAN BOTANICAL PRIZE

A prize of \$50, founded by Mrs. Esther Herrman, is awarded annually to the most proficient undergraduate student in botany.

KOHN MATHEMATICAL PRIZE

A prize of \$50, founded by Mrs. S. H. Kohn, is awarded annually to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course.

THE JENNY A. GERARD MEDAL

The Jenny A. Gerard Gold Medal, given in 1908 by the Society of the Colonial Dames of America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the undergraduate student of American birth in Barnard College who is most proficient in American Colonial History.

THE FLARSHEIM PRIZE

A prize of \$50, given by Mr. Morris H. Flarsheim of Louisville, Ky., in memory of his daughter Helen Amelia Flarsheim, will be awarded to a member of the Class of 1911, of which Miss Flarsheim was to have been a member, for excellence in English Composition during the year 1908-1909, for excellence in English during the year 1909-1910 and for general excellence in scholarship during the year 1910-1911.

THE BUNNER MEDAL

The H. C. Bunner Gold Medal, established by the friends of the late Henry Cuyler Bunner, is awarded annually at Commencement to the candidate for a Columbia degree who shall present the best essay on an assigned subject in American literature. The award will be made by a committee to be appointed by the President. The subject for the essay to be handed in May 1, 1910, is "American Humorists before the Civil War"; in 1911, "American Poetry."

EARLE PRIZE IN CLASSICS

A prize of \$50, established in memory of Mortimer Lamson Earle,

Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900, and Professor of Classical Philology from 1900 to 1905, will be open for annual competition to all candidates for the degree of Bachelor of Arts. It will be awarded partly on the basis of the regular work of the year in Greek and in Latin, partly on the basis of a special examination held in May or June. The special examination will cover specified portions of Greek and Latin literature, sight-reading in Greek and in Latin, and prose composition in Greek and in Latin. The special subjects for 1910 will be the *Clouds* of Aristophanes and Books XII and XIII of the *Annales* of Tacitus; in 1911, *Iphigenia Taurica* and the *Alcestis* of Euripides and Books I and II of Virgil's *Georgics*.

HONORS

Honors are of two kinds, departmental and general honors. Departmental honors will be granted in any year in any department for high excellence indicated by the grade of A obtained in courses aggregating at least six points and by the satisfactory performance of additional assigned work. Students must announce their candidacy to the head of the department not later than April 1, of the year of candidacy.

Except by special decision of the Committee on Honors, no student falling below C in any of the courses taken by her during the year of candidacy will receive honors.

A student who has won honors in any department successively during the last three years of her college residence shall be granted at graduation highest final honors in said department.

General honors will be granted at the end of every college year to students who during that year have obtained grade A in courses amounting to a majority of the points taken by them, provided they have not fallen below Grade B in any course in said year.

Highest final general honors will be granted at graduation to all students who have obtained grade A in courses amounting to a majority of the points taken by them during the last three years of college residence, provided they have not fallen below grade B in any course in said years.

THE UNIVERSITY LIBRARY

The University Library is open each week-day (except Labor Day, Thanksgiving, Christmas, New Year's Day, Good Friday, and Independence Day) from 8.30 A.M. until 11 P.M., October-June; and until 10 P.M., July-September. All officers, students, and graduates of all departments of the University have free access to the Library and may draw books for home use.

The Library contains about 435,000 volumes, exclusive of unbound

pamphlets and duplicates, and some 30,000 German dissertations. About 10,000 carefully selected reference books and the most important works on all subjects, in standard editions representing the leading authors in all literatures, are placed in the general reading-room directly accessible to all readers.

For the convenience of the undergraduates of Barnard College there is also maintained in the Ella Weed Memorial Reading-room at Barnard College a carefully selected reference library of about 5400 volumes.

An accurate catalogue of the entire Library by authors and subjects is on cards accessible to readers.

CHAPEL SERVICE

Chapel service is held on Monday and Thursday of each week at 12 o'clock in the college assembly room. The service lasts about twenty minutes and is usually conducted by some clergyman of the city or by some officer of the University. Attendance is entirely voluntary.

STATISTICS

The following tabular statement indicates the growth of the College from its foundation:

	1889 to 1890	1890 to 1891	1891 to 1892	1892 to 1893	1893 to 1894	1894 to 1895	1895 to 1896	1896 to 1897	1897 to 1898	1898 to 1899	1899 to 1900	1900 to 1901	1901 to 1902	1902 to 1903	1903 to 1904	1904 to 1905	1905 to 1906	1906 to 1907	1907 to 1908	1908 to 1909	1909 to 1910
UNDERGRADUATES:																					
Seniors.....	..	..	8	7	9	18	21	22	22	24	40	52	51	50	78	83	81	63	59	68	62
Juniors.....	..	7	7	10	18	21	22	22	23	24	40	39	48	74	79	71	78	110	116	108	122
Sophomores.....	..	8	7	10	18	22	21	21	28	38	37	51	72	78	101	75	97	88	95	114	109
Freshmen (regular).....	4	7	16	26	23	20	21	21	38	45	54	81	98	92	101	110	111	130	135	161	188
" (partly regular).....	10	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	14	19	30	51	59	71	81	85	111	131	171	223	269	294	330	339	367	391	405	451	481
GRADUATE STUDENTS																					
SPECIAL STUDENTS.....	..	12	5	5	18	19	33	49	58	75	82	..	..	..	..	..	..	..	..	..	..
Non-matriculated.....	..	..	..	..	..	..	..	45	38	28	21	41	27	36	31	27	18	22	35	25	24
Botany.....	12	17	22	30	22	26	19	..	..	..	..	..	..	..	..	..	5	6	13	22	30
Chemistry.....	10	5	5	2	7	3	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Political Science.....	..	..	..	..	..	..	11	..	..	..	..	..	..	..	..	..	..	..	..	..	..
MUSIC STUDENTS.....	..	..	..	..	..	..	..	24	20	37	41	37	43	29	41	..	..	..	..	..	..
STUDENTS FROM TEACH-	..	..	..	..	..	..	..	..	7	8	18	54	47	45	47	77	95	165	167	182	200
ERS COLLEGE.....	..	..	..	..	..	..	..	..	..	..	..	29	45	41	51	62	57	40	38	36	59
STUDENTS FROM COLUM-	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
BIA UNIVERSITY.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	22	34	32	37	47	48	66	118	123	148	162	161	162	151	170	166	175	233	253	265	313
TOTAL REGISTRATION.....																					
	36	53	62	88	106	119	147	203	234	279	333	384	431	445	500	505	542	624	658	716	794
DEGREES CONFERRED:																					
A.B.....	..	..	8	8	8	18	22	22	22	21	39	50	50	47	79	83	75	76	97	98	..
A.M.....	..	..	..	..	1	9	11	11	11	16	18	..	..	..	..	..	..	..	..	..	..
Ph.D.....	..	..	..	..	1	..	..	..	2	2	1	..	..	..	..	..	..	..	..	..	..

DEPARTMENTAL STATEMENTS

The following general regulations apply to all courses:

When an announced course has not been applied for by at least three candidates for a degree, the instructor may withdraw it.

Where the hours for laboratory work are not given either in the departmental statement or in the scheme of attendance, they must be arranged after consultation with the officer in charge of the course.

Prescribed courses are designated by capital letters. Elective courses are designated by numbers, odd numbers for the first half-year courses and even numbers for the second half-year courses. A compound course is therefore designated by an odd number and the succeeding even number. The numbers from 1 to 99 inclusive are given to courses open only to undergraduates; the numbers from 101 to 199 inclusive are given to courses open to both undergraduates and graduates; the lower numbers in each case being used for the introductory courses.

In the statement of each course the prerequisites are indicated. When no department is named it is to be assumed that the reference is to a numbered course in the same department.

A hyphenated course (*e. g.*, History A1-A2) is regarded as a full year course of which the first half is always assumed to be a prerequisite for admission to the second half, and no credit will be given for work dropped at the mid-years or before the completion of the course. A course of which the index signs are separated by a comma (*e. g.*, English A1, A2) is regarded as a divisible course of which each half-year may be taken separately.

Courses marked with an asterisk (*) are given at Columbia University. Courses marked with a dagger (†) are given at Teachers College.

Work at Teachers College mentioned herein may be pursued only by regularly enrolled students of Barnard College and only when counting for a Barnard College degree. Certain courses not here specified as being open at Teachers College may, through the courtesy of Teachers College and with the consent of the Committee on Instruction, be taken by such students; but in no case may courses in Education not announced in the Announcement be elected by students who are not candidates for a professional degree in Teachers College. All special students of whatever class should enroll for work at Teachers College through the Extension Department.

For more detailed information in regard to topics, text-books, or methods, in any particular course, students are referred to the instructors.

ANTHROPOLOGY

1—General Introductory Course. Professor FARRAND. 4 points.
M., W., and F. at 1, and one hour to be arranged.

Open to juniors and seniors.

This course consists of an outline of comparative anthropology. A general discussion of the physical characters of the earliest human remains and their relations to present forms is given. Spécial stress is laid on the discussion of the mental development of primitive man, together with a description of types of primitive culture and an inquiry into the relation and development of particular phases of culture.

2—General Introductory Course. Professor BOAS. 4 points.
M., W., and F. at 1, and one hour to be arranged.

Open to juniors and seniors.

In this course the subject-matter of anthropology is discussed from an historical and geographical point of view. A general survey of races, languages, and types of culture is given and the growth of each type of culture as influenced by migration of cultural elements is traced. The history of domesticated animals, of cultivated plants, of industries and of beliefs and institutions, is thus treated.

Courses 103, Prehistoric Archæology, Professor SAVILLE and Dr. BERKEY; 104, Prehistoric Archæology of America, Professor SAVILLE and Dr. BERKEY; 105, 106, Ethnology, Primitive Culture, Professor FARRAND; 107, 108, Ethnology of America and Siberia, Professor BOAS; 115, Archæology of the Northern Part of Mexico, Professor SAVILLE; 116, Archæology of Southern Mexico and Central America, Professor SAVILLE; 117, 118, American Languages, Professor BOAS; 121-122, Anthropometry, Professor BOAS; 127, Archæology of Peru, Mr. BANDELIER; 129, 130, American Languages, advanced course, Professor BOAS, given at Columbia University, are open, with the consent of the Department of Anthropology and the Committee on Instruction, to properly qualified seniors. For fuller information students are referred to the Announcement of the Division of Philosophy, Psychology, and Anthropology.

ARCHITECTURE

***21-22—Ancient Architectural History.** Mr. LUDLOW. 6 points.
Tu. and Th. at 10.

***23-24—Mediaeval Architectural History.** Early Christian, Byzantine, Romanesque, Gothic, and Oriental architecture. Professor HAMLIN and Mr. LUDLOW. Lectures, 4 points; research work, 2 points.

M. and F. at 9. Research, afternoons of five weeks of second half-year (optional); dates to be arranged in conference with the instructors.

***25-26—Modern Architectural History.** The Renaissance, modern revivals, and American architecture. Professor HAMLIN and Mr. LUDLOW. Lectures, 4 points; research work, 2 points.

M. and F. at 11. Research, afternoons of five weeks of second half-year (optional); dates to be arranged in conference with the instructors.

***53—Theory of Decorative Arts.** Interior decoration, ceramics, textiles, stained-glass, woodwork and ironwork. Professor HAMLIN and special lecturers. Lectures and 3 plates, 1 point.

Th. at 1.

This course may be taken only in connection with some other course in the department.

***54—Theory of Color.** The scientific basis and aesthetic principles of color as applied to the arts, especially of architecture and decoration. Professor HAMLIN and special lecturers. Lectures and 3 or 4 plates, 1 point.

Th. at 1.

This course may be taken only in connection with some other course in the department.

ASTRONOMY

1, 2—General Astronomy, Introductory Course. Professor JACOBY 6 points.

M., W., and F. at 10, and occasional voluntary evening attendance in the Wilde Observatory at hours to be arranged.

Prerequisite: Mathematics A.

This course is introductory and descriptive; intended for students who do not desire to specialize. The lectures are illustrated by experiments and the stereopticon. Observatory work includes observation of the sun and moon, planets, satellites, nebulae and stars.

3, 4—General Astronomy, Second Course. Professor MITCHELL. 6 points.

Tu., Th. and S. at 9.

Prerequisite: Course 1, 2.

Course 103, 104, Practical Astronomy, Professor MITCHELL, given at Columbia University, is open with the consent of the Department of Astronomy and the Committee on Instruction, to properly qualified seniors. For fuller information students are referred to the Announcement of the Division of Mathematical and Physical Science.

BOTANY

51-52—Principles of the Morphology and Physiology of Plants. Professors RICHARDS and HAZEN, Miss LATHAM, and Miss KINGSLEY. 2 lectures, 4 hours of laboratory work. Demonstrations to accompany lectures. 8 points.

Lectures M. and F. at 9. Demonstrations W. at 9.

Laboratory fee, \$2.50.

53-54—General Morphology and Development of Plants, Study of Types. Professor HAZEN and Miss KINGSLEY. 2 lectures, 4 or 6 hours of laboratory work, 8 or 10 points.

Tu. and Th. at 11.

Laboratory fee, \$2.50.

Course 53-54 is not open to freshmen. It should ordinarily be preceded by 51-52 but is open, on consultation with the instructor, to students of sufficient training who also either attend the lectures 51-52 or elect the full 6 hours of laboratory work in Course 53-54.

55-56—Morphology and Classification of Spermatophytes, Study of

the Natural Orders. Professor HAZEN. 1 hour lecture or conference, 4 or 6 hours of laboratory work. 6 or 8 points.

M. at 3.

Laboratory fee, \$2.50.

Prerequisite: Course 51-52 or entrance botany.

[151-152—Bacteriology. 1 lecture and a minimum of 6 hours of laboratory work. 8 points.

Laboratory fee, \$2.50 for each half-year.

Prerequisite; Course 53-54 and some knowledge of chemistry.

Not given in 1910-11.]

153—Anatomy of Vascular Plants. Professor RICHARDS and Miss LATHAM. 2 lectures and a minimum of 6 hours of laboratory work. 5 points.

Tu. and Th. at 9.

Laboratory fee, \$2.50.

Prerequisite: Course 53-54.

[154—Physiology of Plants from Standpoint of Nutrition. Professor RICHARDS and Miss LATHAM. 2 lectures and a minimum of 6 hours of laboratory work. 5 points.

Laboratory fee, \$2.50.

Prerequisite: Course 153 and some knowledge of chemistry.

Not given in 1910-11.]

Courses 154 and 156 are given in alternate second half-years.

[156—Physiology of Plants from Standpoint of Growth. Professor RICHARDS and Miss LATHAM. 2 lectures and a minimum of 6 hours of laboratory work. 5 points.

Laboratory fee, \$2.50.

Prerequisite: Course 153 and some knowledge of chemistry.

Not given in 1910-11.]

Courses 153, 154, and 156 are open to students only after consultation with the instructor.

158—Structure and Development of Algæ. Advanced course. Professor HAZEN. 1 lecture and 6 hours of laboratory work. 4 points.

Hours to be arranged.

Laboratory fee, \$2.50.

Prerequisite: Courses 51-52 and 53-54.

159—Structure and Development of Fungi. Advanced course. Professor RICHARDS. 1 lecture and 6 hours of laboratory work. 4 points.

Hours to be arranged.

Laboratory fee, \$2.50.

Prerequisite: Courses 51-52 and 53-54.

Courses 158 and 159 are given either the first or second half-year to suit the con-

venience of the instructor and students. The two courses will not usually be given the same year.

160—Embryology and Laboratory Methods. Practice in methods of technique, with the study of the embryology of one or more types. Professor HAZEN and Miss LATHAM. 8 hours of laboratory work with occasional lectures and outside reading. 4 points.

Hours to be arranged.

Laboratory fee, \$2.50.

Prerequisite: Course 153; parallel: Course 154 or 156.

161, 162—Advanced Physiology and Morphology. Professors RICHARDS and HAZEN.

Work will be arranged to suit the needs of the students, and credit will be given according to the amount accomplished. Open to students only after consultation with the instructors.

Laboratory fee, \$2.50 for each half-year.

With the permission of the instructor this course may be taken in successive years.

CHEMISTRY

Students are requested to elect courses in the following order: 5-6, 63, 64, 41-42, 43-44.

5-6—General Inorganic Chemistry. Professor REIMER, Miss KELLER, and Miss SILLCOX. 5 hours, including lectures, discussions, and laboratory work. 6 points.

M., W., and F. at 11. Laboratory work, Tu., W., or Th., 2-4.30.

Laboratory fee, \$5.

41-42—Organic Chemistry, Elementary Lecture Course. Professor REIMER. 2 lectures. 4 points.

M. and W. at 1.

Prerequisite: Course 5-6. It is urged that Course 43-44 be taken with this course.

43-44—Organic Chemistry, Elementary Laboratory Course. Professor REIMER. 8 hours. 8 points.

Hours to be arranged.

Laboratory fee, \$20.

Prerequisite: Courses 5-6, 41-42. Recommended as a parallel to Course 41-42.

This course is designed to teach the student the important methods of preparation of organic compounds.

A special laboratory course of 4 hours a week counting as 4 points is offered, after consultation with the instructor.

63—Qualitative Analysis. Miss KELLER. 3 lectures and 8 hours of laboratory work. 7 points.

Tu. and Th. at 11 and a third hour to be arranged.

Laboratory fee, \$6.

Prerequisite: Course 5-6.

64—Quantitative Analysis. Miss KELLER. 3 lectures and 8 hours of laboratory work. 7 points.

Tu. and Th. at 11 and a third hour to be arranged.

Laboratory fee, \$6.

Prerequisite: Courses 5-6 and 63.

The lecture work of Courses 63 and 64 consists of two hours a week devoted to the general chemistry of the subject, and one hour to elementary theoretical chemistry.

[105-106—Inorganic Chemistry, Advanced Course. Miss KELLER. 3 lectures and a minimum of 6 hours of laboratory work. 12 points.

Hours to be arranged.

Laboratory fee, \$20.

Prerequisite: Courses 5-6, 63, 64, and Physics 11-12.

This course is designed to supplement Courses 63 and 64. The lectures will be devoted to a detailed discussion of the elements, including the rare elements, and advanced theoretical chemistry. The laboratory work will consist of practice in preparation of inorganic compounds, mineral analyses, and physical-chemical measurements.

Not given in 1910-11.]

145-146—Organic Chemistry, Advanced Course. Professor REIMER. 3 lectures and a minimum of 6 hours of laboratory work. 12 points.

Laboratory fee, \$20.

Prerequisite: Courses 5-6, 41-42, 43-44, 63, 64.

This course is designed to supplement Courses 41-42 and 43-44. It is a more comprehensive discussion of the most important classes of organic compounds and their relations to each other. Special emphasis will be given to recent theories as to the structure of the compounds and the mechanism of their reactions. The laboratory work consists of the preparation of organic compounds discussed in the lectures and the study of their reactions. In the second half-year, some special problem is assigned to each student.

Journal Club. Professor REIMER and Miss KELLER. 1 hour.

The advanced students and the instructors meet for reports and discussion on recent scientific papers.

CLASSICAL PHILOLOGY

Greek

(See the note prefixed to the announcement of courses in Latin. Courses 3, 4, 7, 8, are mainly literary, courses 5, 6 mainly linguistic in character. Students seeking to elect courses numbered above 6 should consult the instructor in charge of the course or the head of the department.)

1-2—Elementary Course. Grammar, Composition, Xenophon's *Anabasis*, Homer's *Iliad*. Dr. STURTEVANT. 10 points.

M., Tu., W., Th., and F. at 2.

Prerequisite: elementary entrance Latin.

This course may not be begun in the second half-year. It is designed for students who have entered without Greek but wish to include it in their course of study. It is believed that such students will be qualified to enter Course 3 or Course 5 at the beginning of the following year.

3—Homer: The Odyssey (selections). Professor VAN HOOK. 2 points.

M. and W. at 10.

Prerequisite: Course 1-2 or elementary entrance Greek. Required as parallel: 2 points of Course 19-20 (F. at 10) or Course 11-12 (M. at 11).¹

4—Euripides: Medea and Ion. Professor VAN HOOK. 2 points.

M. and W. at 10.

Prerequisite: Course 1-2 or elementary entrance Greek. Required as parallel: 2 points of Course 19-20 (F. at 10) or Course 11-12 (M. at 11).¹

5—Plato: Protagoras. Dr. HIRST. 2 points.

W. and F. at 11.

Prerequisite: Course 1-2 or elementary entrance Greek. Required as parallel: Course 11-12 (M. at 11) or 2 points of Course 19-20 (F. at 10).¹

6—Herodotus (selections). Dr. HIRST. 2 points.

W. and F. at 11.

Prerequisite: Course 1-2 or elementary entrance Greek. Required as parallel: Course 11-12 (M. at 11) or 2 points of Course 19-20 (F. at 10).¹

7—Sophocles: Oedipus Tyrannus and Ajax. Professor KNAPP. 4 points.

Tu. and Th. at 10 and a third hour to be arranged.

8—Thucydides (selections). Professor KNAPP. 4 points.

Tu. and Th. at 10 and a third hour to be arranged.

9-10—Greek Literature; lectures and required reading. Professor VAN HOOK. 8 points.

Tu. and Th. at 2 and a third hour to be arranged.

11-12—Elementary Greek Prose Composition. Professor VAN HOOK. 2 points.

M. at 11.

¹First-year students may elect at will Course 3-4 or 5-6; those who have entrance conditions in Greek prose are, however, strongly advised to elect Course 5-6. Students conditioned at entrance in Greek prose *must* elect Course 11-12 as the required parallel to Course 3-4 or 5-6; they *may* also, subject to action by the Committee on Instruction, elect 2 points of Course 19-20. Similarly first-year students who elect 2 points of Course 19-20 as the required parallel to Course 3-4 or 5-6 may also, subject to action by the Committee on Instruction, elect Course 11-12.

Required as a parallel to Course 5-6 unless Course 19-20 is elected instead.

This course may be elected by second-, third-, or fourth-year students who have not previously counted any course in Greek composition toward the degree.

13-14—Advanced Greek Prose Composition. Dr. HIRST. 2 points.
Hour to be arranged.

With the permission of the head of the department, this course may be taken in successive years.

19-20—Greek Life and Thought; lectures and readings. Professor VAN HOOK. 4 points (2 points only, if taken as required parallel to Course 3-4 or 5-6).

F. at 10.

As a 2-point course this is required as a parallel to Course 3-4 unless Course 11-12 is elected instead. As a 4-point course it may be elected by students other than first year students who are taking any other course in the Department. Such student will be required to do much more work than will be expected of first-year students who take it in combination with Course 3-4.

Latin

For the first two years certain courses (B1, B2, 3, 4) will be mainly but not wholly linguistic; certain other courses (A1, A2, 1, 2) will be mainly literary in character. The linguistic courses are intended specially for those who purpose to teach Latin; such students should also give all possible time to the courses in prose composition. The literary courses are intended for those who study Latin in the interests of general culture rather than for professional reasons. Those who purpose to be teachers cannot, however, afford wholly to neglect the literary courses, nor, on the other hand, can those whose interests are mainly literary secure the best results without careful linguistic study.

Accordingly, that all students may be able to make use of the advantages offered in Greek and Latin, they will be allowed at the beginning of the later years, with the consent of the head of the department, to elect courses of the earlier years (A1, A2, B1, B2, 1, 2, 3, 4) not yet counted toward a degree. In all such cases the student will be required to do some extra work prescribed by the instructor in charge of the course. The attention of advanced students is called to the courses in Greek and Roman life. Students planning to elect Courses 9-10, 17-18, 19-20, should consult the head of the department.

A1—Vergil: Eclogues; Ovid (selections). Professors MOORE and VAN HOOK. 2 points.

Sections I and II, W. and F. at 1.

Prescribed as parallel: 2 points of Course 19-20 (M. at 1) or Course 11-12 (Tu. at 9).¹

Prescribed for freshmen taking the A.B. course, unless they elect Course B or have offered Advanced Latin at entrance.

A2—Horace: Odes (selections). Professors MOORE and VAN HOOK. 2 points.

Sections I and II, W. and F. at 1.

¹See footnote on p. 75.

Prerequisite: Course A1. Prescribed as parallel: 2 points of Course 19-20 (M. at 1) or Course 11-12 (Tu. at 9).¹

Prescribed for freshmen as above.

B1—Cicero: De Senectute and De Amicitia. Drs. HIRST and STURTEVANT. 2 points.

Sections I and II, Th. and S. at 9.

Prescribed as parallel: Course 11-12 (Tu. at 9) or 2 points of Course 19-20 (M. at 1).¹

Prescribed for freshmen taking the A.B. course, unless they elect Course A or have offered Advanced Latin at entrance.

B2—Livy (selections from Books XXI, XXII). Drs. HIRST and STURTEVANT. 2 points.

Sections I and II, Th. and S. at 9.

Prerequisite: Course B1. Prescribed as parallel: Course 11-12 (Tu. at 9), or 2 points of Course 19-20 (M. at 1).¹

1—Horace: Sermones. Professor KNAPP. 2 points.
Tu. and Th. at 11.

2—Catullus and Martial. Dr. HIRST. 2 points.
Tu. and Th. at 11.

3—Terence: Andria; Adelphoe. Dr. STURTEVANT. 2 points.
Tu. and Th. at 1.

4—Plautus: Captivi and Mostellaria. Dr. STURTEVANT. 2 points.
Tu. and Th. at 1.

5—Cicero: De Officiis. Dr. HIRST. 3 points.
M., W., and F. at 9.

6—Lucretius. Professor McCREA. 3 points.
M., W., and F. at 9.

9-10—Latin Literature; lectures and required reading. Professor KNAPP. 8 points.

Tu. and Th. at 3 and F. at 2.

11-12—Elementary Latin Prose Composition. Professor KNAPP. 2 points.

¹ First-year students may elect at will Course A1-A2 or B1-B2; those who have entrance conditions in Latin Prose Composition are, however, strongly advised to elect B1-B2. Students conditioned at entrance in Latin prose *must* elect Course 11-12 as the required parallel to Course B1-B2 or A1-A2; they *may* also, subject to action by the Committee on Instruction, elect 2 points of Course 19-20. Similarly, first-year students who elect 2 points of Course 19-20 as the required parallel to Course A1-A2 or B1-B2 may, subject to action by the Committee on Instruction, elect Course 11-12.

Tu. at 9.

Prescribed as a parallel to Course **B1-B2** unless Course **19-20** is elected instead.

This course is meant primarily for first-year students. It may, however, be elected by second-, third-, or fourth-year students who have not previously counted any course in Latin composition toward the degree.

15-16—Intermediate Latin Prose Composition. Dr. HIRST. 2 points.

Th. at 3.

17-18—Advanced Latin Prose Composition. Dr. HIRST. 4 points.

Th. at 10.

19-20—Roman Life and Thought; lectures and readings. Professor KNAPP. 4 points (or 2 points, if taken in combination with Course **A1-A2** or **B1-B2**).

M. at 1.

As a 2-point course, this is prescribed as a parallel to Course **A1-A2** unless Course **11-12** is elected instead. As a 4-point course it may be elected by students other than first-year students who are taking any other course in the department. Such students will be required to do much more work than will be expected of first-year students who are taking it in combination with Course **A1-A2**.

†51-52—Latin Readings. Professor LODGE. 6 points.

M., W., and F. at 10.

ECONOMICS AND SOCIAL SCIENCE

Economics

A1-A2—Outlines of Economics; first half-year. **Practical Economics;** second half-year. Professor MUSSEY and Dr. AGGER. 6 points.

Entire Class Monday at 3; Section I, Tu. and Th. at 9; Section II, Tu. and Th. at 10; Sections III and IV, Tu. and Th. at 11; Section V, Tu. and Th. at 1.

Prescribed for juniors but open to specially qualified sophomores.

During the first half-year this course will consist of a study of the characteristics of modern industrial society and of the fundamental economic principles; during the second half-year it illustrates the application of economic principles; to such practical questions as money and banking, the tariff and foreign trade, railroads, monopolies, the labor movement, and socialism.

***104—Commerce and Commercial Policy.** Professor MUSSEY. 2 points.

Tu. and Th. at 10.

Prerequisite: Course **A1-A2**.

In this course the economic bases of modern commerce, and the significance of commerce, domestic and foreign, in its relation to American industry, will be studied. An analysis will be made of the extent and character of the foreign trade of the United States, and the nature and effect of the commercial policies of the principal commercial nations will be examined.

[115—Socialism and Social Reform. Professor CLARK. 4 points.
Prerequisite: Course A1-A2.

This course offers a study of socialistic and semi-socialistic theories and movements. Beginning with an exposition of early French Socialism, it gives especial attention to the works of Rodbertus and Marx and concludes with a study of the single tax, agrarian movements, factory laws, and economic undertakings of American cities, states, and the federal government.

Not given in 1910-11.]

117—(old number 116)—The Labor Problem. Professor SEAGER. 2 points.

Tu. and Th. at 1.

Attention in this course is divided about equally between problems connected with labor organizations—collective bargaining, strikes, arbitration, etc.—and problems whose solution involves legislation—child labor, dangerous trades, the sweating system, immigration, etc. Lectures are supplemented by assigned readings, and class discussions.

118—Practical Economic Problems. Professor SEAGER. 2 points.

Tu. and Th. at 1.

In this course special attention is given to problems connected with money and banking and corporations and trusts. Lectures are supplemented by assigned readings and class discussions.

Sociology

***151-152—Principles of Sociology.** Professor GIDDINGS and Mr. TENNEY. 4 points.

M. and W. at 3.

Prerequisite: Economics A1-A2.

EDUCATION

Education A is prerequisite to all other courses in Education. Education B should be taken parallel with other courses in the senior year.

†A—Educational Psychology. Professors THORNDIKE and NORSWORTHY, Dr. BINGHAM, and Miss WHITLEY. 4 points.

The class will meet together on M. at 1, throughout the year; and in sections during the first half-year Tu. and Th. at 10 (Sections II and III), or W. and F. at 10 (Section IV).

Any other section meeting at times stated in the *Teachers College Announcement* may be substituted with the approval of the instructor.

Prerequisite: Philosophy A1.

Students who have previously had some work in Education may substitute Course 17-18 or 19-20 for Course A.

†B—History and Principles of Education. Professor MONROE and assistants. 6 points.

Section VIII, M., W., and F. at 10; Section IX, at 3.

Students who have a satisfactory knowledge of the field covered by Education B may substitute Course 105-106 or 107-108 for Course B.

†19-20—Readings in Educational Psychology. Professor NORSWORTHY. 4 points.

M. and Th. at 9.

This course may be substituted for Course A by students who have previously had some work in education.

†21-22—The Psychology of Childhood. Professor NORSWORTHY. 4 points.

Section I, Tu. and Th. at 10; Section II, at 2.

†6—Logic as Applied to Problems of Teaching. Professor DEWEY. 2 points.

Tu. and Th. at 5.

†87-88—Personal and Institutional Hygiene, Sanitation. Professor WOOD. 6 points.

M., W., and F. at 11.

†105-106—Principles of Education. Professor MACVANNEL. 4 points.

M. and W. at 10.

This course may be substituted for Course B by students who have a satisfactory knowledge of the field covered in that course.

†107-108—Educational Sociology. Professor SUZZALLO. 4 points.

Tu. and Th. at 10.

This course may be substituted for Course B by students who have a satisfactory knowledge of the field covered in that course.

†121-122—Educational Psychology. Professor THORNDIKE. 4 points.

M. and W. at 11.

†187-188—The Hygiene of Childhood and Adolescence. Professor WOOD. 2 points.

S. at 10.

Open only to seniors.

ENGLISH

A1, A2—English Literature and Composition. Professor BREWSTER, Professor HUBBARD, Miss WEEKS, Mr. HALLER, Miss COOK, and Miss FOX. 6 points.

Entire class, S. at 10; Sections I, II, and III, Tu. and Th. at 10; Section IV, Tu. and Th. at 11; Section V, W. and F. at 11. (Sections IV and V are limited to 35 students each.)

Prescribed for freshmen.

Two hours a week throughout the year will be devoted to a general survey of the history of English Literature, and one hour to English Composition.

Special arrangements will be made for students entering at the opening of the second term.

B₁, B₂—English Composition. Professor GILDERSLEEVE, Dr. WRIGHT, Mr. HALLER, Miss COOK, and Miss FOX. 6 points.

Sections I, II, and III, Tu. and Th. at 9 and a third hour to be arranged; Sections IV and V, Tu. and Th. at 11 and a third hour to be arranged. (Sections IV and V are intended for students in the 9 o'clock section of History A and are limited to 30 students each.)

Prerequisite: Course A₁, A₂.

Prescribed for sophomores.

1, 2—English Composition. Professor BREWSTER. 8 points.

Tu. and Th. at 11 and a third hour to be arranged.

Prerequisite: Course B₁, B₂.

Daily and fortnightly themes will be required throughout the year. With the permission of the instructor, this course may be taken in two successive years. Except for very good reasons, the second half-year may not be elected unless the student has passed at least once the work of the first half-year.

7-8—Elocution. Professor TASSIN. 4 points.

M., W., and F. at 2.

Not open to freshmen.

25-26—English Poetry from 1550 through Milton. First term: from 1550 to 1625; second term: from 1625 to 1674. Professor TRENT. 6 points.

M. and W. at 10.

Open to all juniors and seniors, and to specially qualified sophomores who are recommended by their instructors in English A.

27-28—English Poetry from Dryden to the Victorian Period. First term: from Dryden to Wordsworth; second term: from Wordsworth to 1830. Professor TRENT. 6 points.

M. and W. at 11.

Open to all juniors and seniors, and to specially qualified sophomores who are recommended by their instructors in English A.

29-30—English Literature from the Earliest Period to the Norman Conquest. First term: Anglo-Saxon prose; second term: Beowulf and selected Anglo-Saxon poems. Professor AYRES. 6 points.

M., W., and F. at 2.

Prerequisite: Course A₁, A₂.

31, 32—English Literature from the Norman Conquest to 1550. The first term will be devoted chiefly to Chaucer; the second term will include a general survey of romances, ballads, and other important forms of mediæval literature in England and on the Continent. Professor GILDERSLEEVE. 8 points.

M., W., and F. at 9.

Open to juniors and seniors who have taken at least one elective course in English.

Except by special permission of the instructor, the second term is open only to students who have taken the first term.

33, 34—English Literature of the Victorian Period. Professor HUBBARD. 6 points.

W. and F. at 10 and a third hour to be arranged.

Open to juniors and seniors. Except by special permission of the instructor, the second term is open only to students who have taken the first term.

35, 36—Shakspeare. Professor GILDERSLEEVE. 6 points.

M., W., and F. at 11.

Open to all juniors and seniors, and to specially qualified sophomores who are recommended by their instructors in English A. Except by special permission of the instructor, the second term is open only to students who have taken the first term.

[37-38—English Prose, including Fiction. Professor BREWSTER. 8 points.

Not given in 1910-11.]

[41-42—English Drama exclusive of Shakspeare. First term: the drama to the closing of the theatres in 1642; second term: the drama from the closing of the theatres to modern times. Professor TASSIN. 8 points.

Not given in 1910-11.]

45-46—English Literary Criticism. Professor HUBBARD. 4 points.

Tu. and Th. at 10.

Open to juniors and seniors who have taken at least two elective courses in English.

†55, 56—Nineteenth Century Writers. Professor BAKER. 4 points.

M. and W. at 2.

With the consent of the Department of English and the Committee on Instruction, certain courses in the Graduate School are open to specially qualified seniors.

FINE ARTS

†53, 54—Art Appreciation; History of Art. Professor Dow. 4 points.

Tu., 4-5.30.

French. See Romance Languages and Literatures.

GEOGRAPHY

†1, 2—General Geography. Professor DODGE and Miss C. B. KIRCHWEY. Lectures and laboratory work. 6 points.

M. 10-12, or Tu. 9-11; W. and F. at 10.

Laboratory fee, \$1.

Open to all undergraduate students.

GEOLOGY¹

1, 2—General Geology. Elementary course. The time-honored

¹ In the reckoning of points for major and minor subjects, geology and mineralogy may be counted as one subject.

subjects of physical, structural, dynamical, stratigraphical, and historical geology are treated as parts of a single subject, from the point of view, first of processes and their results, later of the history of the earth. Drs. OGILVIE and MAURY. 2 lectures, 2 hours of laboratory work. 6 points.

Tu. and Th. at 10. Laboratory or field work, M., Tu., W., or Th., 1-3 or 2-4.

Students who have had no previous scientific training are advised to take 1a, 2a with 1, 2.

1a, 2a—Laboratory work and a few lectures supplementary to 1, 2 and to **Mineralogy 17-18**. Drs. OGILVIE and MAURY. 2 points. Hours to be arranged.

113—**Summer Field Course**. Dr. OGILVIE. 2 weeks in the field, involving the subsequent preparation of a report. 4 points.

Time to be arranged.

Prerequisite: Course 1, 2.

117, 118—**Glacial Geology and Advanced Physiography**. Dr. OGILVIE. Lectures, reading, field and laboratory work.

Work will be arranged to suit the needs of the students and credit will be given according to the amount accomplished. (See also statement under Course 120.)

Prerequisite: Course 1, 2.

119, 120—**General Geology. Advanced Course**. Dr. OGILVIE. Lectures, reading, field and laboratory work.

Work will be arranged to suit the needs of the students and credit will be given according to the amount accomplished.

Prerequisite to Course 119: Courses 1, 2 with 1a, 2a. Students who have had only Courses 1, 2 must take 1a, 2a parallel with 119, 120.

Journal Club—The advanced students and instructors in Columbia University meet one evening fortnightly for the discussion of current papers and problems. The meetings of the Journal Club are open to Barnard students taking Courses 117, 118, 119, 120 and to seniors in 1, 2.

GERMANIC LANGUAGES AND LITERATURES

A1-A2—**Elementary Course**. Professor BRAUN, Mr. BECHERT, Mr. PORTERFIELD and Dr. HASKELL. 6 points.

Sections I and II, M., W., and F. at 10; Section III at 11; Section IV at 2; and Section V, intended primarily for Teachers College students, at 4.

Prescribed for freshmen who did not present elementary entrance German.

1-2—**Intermediate Course**. Reading, Grammar, and Composition.

Mr. BECHERT, Mr. PORTERFIELD, and Dr. HASKELL. 6 points.
Section I, M., W., and F. at 9; Sections II and III at 1.

Prerequisite to Course 1: Course A1-A2 or elementary entrance German.

Prerequisite to Course 2: Course 1 or intermediate entrance German.

3-4—Composition and Colloquial Practice. Elementary Course. Drill in German syntax and idiom. Mr. BECHERT. 4 points.

Tu. and Th. at 10.

Prerequisite: Course A1-A2, or elementary entrance German.
This course may be elected only in combination with Course 1-2, 5-6, or 7, 8.

5-6—Selected Dramas of Lessing, Goethe, and Schiller. Texts and essays. Professor BRAUN, Mr. BECHERT, and Mr. PORTERFIELD. 6 or 8 points.

Sections I and II, M., W., and F. at 9; Section III at 1.

Prerequisite: Course 1-2, or with the consent of the instructor, intermediate entrance German.

7, 8—Historical Prose. Rapid reading of selections from the prose writings of Lessing, Goethe, Schiller, and of modern German historians, essayists, and critics. Mr. PORTERFIELD. 6 points.

M., W., and F. at 2.

Prerequisite: Course 1-2, or with the consent of the instructor, intermediate entrance German.

9, 10—Intermediate Practice Course. Conversation and themes on German life, literature, and current events, all in German. Professor BRAUN. 4 points.

Tu. and Th. at 10.

Prerequisite: Course 3-4, or 5-6, or 7, 8.

May be elected only in combination with another German course above 3-4.

[11, 12—Advanced Practice Course. Discussion of syntax, idioms, and synonyms. Talks and themes, all in German, upon linguistic and literary topics. Mr. HEUSER. 4 points.

Prerequisite: Course 9, 10, or its equivalent.

Not given in 1910-11.]

21, 22—Goethe. Life and Selected Works. Texts, reports, and lectures. Dr. HASKELL. 6 points.

M., W., and F. at 10.

The first term is open to qualified students who have taken Course 5-6 or 7, 8; the second term, except by special permission of the instructor, is open only to those who have passed the first term satisfactorily.

[23, 24—Schiller. *Life and Selected Works*. Texts, reports, and lectures. Dr. HASKELL. 6 points.

Not given in 1910-11. To be given in 1911-12.]

25-26 (old number 13-14)—*Selected Dramas of the Nineteenth Century*. Texts of representative dramatists, such as Kleist, Grillparzer, Hebbel, Ludwig, Sudermann, Hauptmann; reports and essays. Professor BRAUN. 4 points.

Tu. and Th. at 9.

Prerequisite: Course 5-6.

37, 38 (old number 17-18)—*History of German Literature* from the earliest times to the nineteenth century. Lectures, themes, and readings from Thomas's *Anthology of German Literature*. Professor THOMAS. 4 points.

Tu. and Th. at 11.

The first term is open to juniors and seniors who have taken Course 5-6 or 7, 8; the second term, except by special permission of the instructor, is open only to those who have passed the first term satisfactorily.

39, 40 (old number 19, 20)—*Goethe's Faust*; First and Second Parts. Lectures and recitations. Professor BRAUN. 4 points.

M. and W. at 9.

The first term is open to juniors and seniors who have taken Course 5-6 or 7, 8; the second term, except by special permission of the instructor, is open only to those who have passed the first term satisfactorily.

Courses 105, *Prose Fiction in the Nineteenth Century*, Professor THOMAS; 106, *Contemporary German Literature*, Professor TOMBO; 107, *History of the German Language*, Professor REMY; 112, *Middle High German*, Professor REMY; 122, *Icelandic*, Professor REMY; 129-130, *Outlines of the History of German Civilization*, Dr. RICHARD; given at Columbia University, are open, with the consent of the Department of Germanic Languages and Literatures and the Committee on Instruction, to properly qualified seniors. For fuller information students are referred to the Announcement of the Division of Modern Languages.

Greek. See Classical Philology.

HISTORY

A1-A2—*Epochs of European History* with special reference to forms of government and changes in social conditions. Miss HUTTMANN. 6 points.

Section I, Tu., Th., and S. at 9; (this section is intended for students in the 11 o'clock section of English B); Section II, Tu., Th., and S. at 10; Section III (intended primarily for freshmen), Tu. and Th. at 1 and W. at 2.

Prescribed for sophomores, but may be taken as an elective by freshmen. This course is prerequisite to all the courses enumerated below.

Students who pass the entrance examinations in ancient, mediæval, and modern history will be allowed to take a special examination on the same periods based on the

requirements of History **A1-A2**. If they satisfy this test, they will be permitted to substitute for History **A1-A2**, as the prescribed work, any course in history numbered less than 100, provided that the total number of points of credit attached to the course be not less than six.

3-4—Greece and Early Italy. Professor BOTSFORD. 6 points.
M., W., and F. at 10.

Courses 3-4 and 5-6 are given in alternate years.

[5-6—The Roman Empire. Professor BOTSFORD. 6 points.
Not given in 1910-11.]

9, 10—European History, modern and contemporaneous. Professor SHOTWELL and Miss DOTY. 8 points.

M., W., and F. at 2, and a fourth hour to be arranged.

13, 14—History of the United States; first term: from 1783 to the war with Mexico; second term: since the war with Mexico. Professor SHEPHERD. 6 points.

M., W., and F. at 11.

†51-52—Literature of American History. Professor JOHNSON. 4 points.

Tu. and Th. at 3.

121, 122—History of the Intellectual Class in Europe from the Greek Sophists to the French Philosophers of the 18th Century. Professor ROBINSON and Miss HUTTMANN. 8 points.

Tu. and Th. at 3, and a third hour to be arranged.

The following courses given at Columbia University are open with the consent of the Department of History and the Committee on Instruction to properly qualified seniors: **117-118**, The Development of the Roman Republic, Professor BOTSFORD; **125-126**, The History of England to 1660, Professor OSGOOD; **149**, Historical Geography of Europe, Professor SHEPHERD; **150**, Historical Geography of European Expansion, Professor SHEPHERD; **155-156**, Social and Industrial Development of Modern Europe, Professor SHOTWELL.

Latin. See Classical Philology.

MATHEMATICS

A1, A2—Geometry, Algebra and Trigonometry. Solid geometry; algebra, including permutations and combinations, determinants, and logarithms; trigonometry, including the use of tables, the solution of triangles, and the important analytical formulæ. Professor KASNER, Mr. KRATHWOHL and Mr. CURTIS. 6 points.

Sections I and II, M., W., and F. at 9; Sections III and IV, M., W., and F. at 10; Sections V and VI, Tu., Th., and S. at 9.

Mathematics **A1, A2** (except such parts: solid geometry, algebra or trigonometry as were passed for entrance) is prescribed for all freshmen.

21—Analytical Geometry. Introduction to the analytical geometry of the plane and of space. Professor KASNER. 3 points.

M., W., and F. at 10.

Prerequisite: Course **A1, A2** or advanced entrance mathematics.

22—Calculus. Elementary course in the differential and integral calculus. Professor KASNER. 3 points.

M., W., and F. at 10.

Prerequisite: Course **21**.

23-24—Theory of Equations. Algebraic and numerical solution of equations, determinants, complex numbers. Mr. KRATHWOHL. 6 points.

M., W., and F. at 2.

Prerequisite: Course **A1, A2**.

25, 26—Calculus. Differential and integral calculus. Professor COLE. Course **25**, 2 points; Course **26**, 4 points.

M., W., and F. at 11.

Prerequisite; Course **22**.

27-28—Projective Geometry. Projective methods of pure geometry. Mr. KRATHWOHL. 6 points.

M., W., and F. at 1.

Prerequisite: Course **21**.

31-32—Advanced Analytical Geometry. Modern methods in analytical geometry; solid analytical geometry. Mr. CURTIS. 6 points.

M., W., and F. at 1.

Prerequisite or parallel: Course **25, 26**.

33-34—The Fundamental Concepts of Modern Mathematics. Lectures, discussions, and reports. Professor KASNER. 6 points.

M., W., and F. at 11.

Prerequisite: Course **25, 26**.

[35-36—General Introduction to Higher Mathematics. Professor KASNER. 6 points.

Prerequisite: Course **25, 26**.

Not given in 1910-11.]

†53-54—Applied Mathematics. Professor UPTON. 6 points.

M., W., and F. at 3.

†151-152—History of Mathematics. Professor D.E. SMITH. 4 points.

M. and W. at 3.

MINERALOGY ¹

17-18—General Mineralogy. Drs. OGILVIE and MAURY. 4 points.

Tu. and Th. 1-3.

¹ In the reckoning of points for major or minor subjects, Mineralogy and Geology may be counted as one subject.

Prerequisite: some previous scientific training, or parallel: Chemistry 5-6 or Geology 1a, 2a.

MUSIC

For fuller information regarding the various courses in music students are referred to the Announcement of the Faculty of Fine Arts.

***1-2—General Musical Course.** History of music from Palestrina to the death of Beethoven, with illustrations. Professor MASON. 4 points.

Tu. and Th. at 10.

This course requires no previous knowledge of music.

***3-4—General Musical Course, advanced.** Discussion of modern music. Professor MASON. 4 points.

Tu. and Th. at 11.

Prerequisite: Course 1-2.

***7-8—Harmony.** Mr. WARD. 6 points.

M., W., and F. at 11.

Prerequisite: a knowledge of musical notation.

***9-10—Advanced Harmony and Elementary Form.** Professor MASON. 4 points.

W. and F. at 2.

Prerequisite: Course 7-8.

***11-12—Counterpoint.** Professor MASON. 4 points.

W. and F. at 3.

Prerequisite: Course 7-8.

***13-14—Composition and Orchestration.** Professor RÜBNER. 4 points.

Th. 10-12.

Prerequisite: Course 9-10.

Course 101-102, Advanced Composition, Orchestration, and Symphonic Form, Professor RÜBNER, given at Columbia University is open, with the consent of the Department of Music and the Committee on Instruction, to properly qualified seniors.

PHILOSOPHY AND PSYCHOLOGY

Philosophy

A1, A2—Introductory Course. Psychology, Course A1; Logic, Course A2. Professor MONTAGUE, Drs. BROWN and HOLLINGWORTH. 6 points.

During the first half-year, Sections I-IV will study psychology and Section V, logic; during the second half-year Sections I-IV will study logic and Section V, psychology.

Sections I and II, M., W., and F. at 9; Sections III and IV at 10.
Section V at 11.

Prescribed for sophomores.

1—Metaphysics. Professor MONTAGUE. 4 points.

M., W., and F. at 2.

Prerequisite or parallel: Course 61-62.

21-22—Ethics. Professor LORD. 8 points.

M., W., and F. at 1.

Prerequisite: Course A1, A2.

61-62—The History of Philosophy. Professor MONTAGUE. 8 points.

M., W., and F. at 9.

Prerequisite: Course A1, A2.

80—Introduction to Contemporary Philosophy. Dr. BROWN. 4 points.

M., W., and F. at 2.

Prerequisite or parallel: Course 61-62.

Courses 131, 132, Moral and Political Philosophy, Professor DEWEY; 169-170, The Philosophy of Plato and Aristotle, Professor WOODBRIDGE and Dr. BUSH, given at Columbia University, are open, with the consent of the Department of Philosophy and the Committee on Instruction, to properly qualified seniors. For fuller information students are referred to the Announcement of the Division of Philosophy, Psychology and Anthropology.

Psychology

For the elementary course in psychology which is prerequisite to all other courses in this subject, see Philosophy A1.

7-8—Experimental Psychology, Introductory Course. Dr. HOLLINGWORTH. 2 lectures and 2 hours of laboratory work, counting as 6 points.

Tu. and Th. at 2; laboratory work M. and W. or Tu. and Th. afternoons.

9-10—Experimental Psychology, Intermediate Course. Dr. HOLLINGWORTH. Conference and laboratory work. 4, 6, or 8 points.

M., Tu., W., and Th. afternoons.

Prerequisite: Course 7-8.

Courses at Columbia University numbered over 100 in analytic, experimental, physiological, pathological, and genetic psychology, given by Professors CATTELL, STRONG, WOODWORTH, and THORNDIKE, are open to specially qualified seniors with the consent of the Department and the Committee on Instruction. For details of these courses see the Announcement of the Division of Philosophy, Psychology, and Anthropology.

PHYSICAL EDUCATION

†A1, A2 — Lectures on personal hygiene, elementary graded exer-

cises, games and dancing. Miss CALHOUN. 2 hours. 2 points.
 Section I, M. and W. at 3; Section II at 4.
 Prescribed for freshmen.
 Gymnasium fee, \$7.

†**B1, B2** — Lectures on hygiene and sanitation, graded gymnastic exercises, games, and dancing. Miss CALHOUN. 2 hours. 2 points.
 Section I, Tu. and Th. at 3; Section II at 4.
 Gymnasium fee, \$7.
 Prescribed for sophomores.

†**C1-C2**—National, folk and æsthetic dancing. Miss CALHOUN. 2 hours.
 Tu. and Th. at 2. (Hours subject to change.)
 Gymnasium fee, \$7.
 Open to juniors and seniors. This course cannot be counted for a degree.

NOTE—An annual gymnasium fee of \$7 is required of all students in Barnard College. This entitles the student to a locker and the use of the gymnasium, swimming-pool, hand-ball courts, and bowling alleys at scheduled hours.

For detailed description of other courses in Hygiene and Physical Education, offered by the Faculty of Teachers College, and open to Barnard College students, see the Announcement of the Division of Physical Education.

PHYSICS

11-12—General Physics. Mechanics, heat, and sound, first half-year; magnetism, electricity, and light, second half-year. Professor MALTBY and Miss LANGFORD. 5 hours, lectures, discussions, and laboratory work. 6 points.

M., W., and F. at 11.

31 (old number 131)—Mechanics and the Properties of Matter. Mr. KENDALL. 3 hours, lectures and discussions, and 2 or 4 hours of laboratory work. 4 or 5 points.

Hours to be arranged.

Prerequisite: Course 11-12.

32 (old number 134)—Heat. Mr. KENDALL. 3 hours, lectures and discussions, and 2 or 4 hours of laboratory work. 4 or 5 points.

Hours to be arranged.

Prerequisite: Course 31.

33 (old number 132)—Light. Miss LANGFORD. 3 hours, lectures and discussions, and 2 or 4 hours of laboratory work. 4 or 5 points.

Hours to be arranged.

Prerequisite: Course 11-12.

34 (old number 135)—Sound. Professor MALTBY. 3 hours, lec-

tures and discussions and 2 or 4 hours of laboratory work. 4 or 5 points.

Hours to be arranged.

Prerequisite: Courses 31 and 32.

[35 (old number 137)—Electricity and Magnetism. 4 or 5 points.

Prerequisite: Courses 31 and 32.

Not given in 1910-11.]

[136 (old number 138)—Electricity. 4 points.

Prerequisite: Courses 31, 32, and 35.

Not given in 1910-11.]

145-146—Physical Chemistry. Professor MALTBY. 8, 10 or 12 points.

Hours to be arranged.

Prerequisite: Courses in general physics, chemistry—organic and inorganic—and the elements of calculus. As a minor for candidates for the degrees of A.M. and Ph.D.; or with a thesis as a major for the degree of A.M.

ROMANCE LANGUAGES AND LITERATURES

French

A1, A2—Elementary Course. Professor GERIG, Mr. MULLER, and Mr. BIGONGIARI. 6 points.

M., W., and F., Sections I and II at 10; Section III, intended primarily for Teachers College students, at 3.

Prescribed for students who did not present French at entrance.

B1, B2—Reading, Composition, Syntax. Professor GERIG and Mr. MULLER. 6 points.

M., W., and F. at 11.

Prerequisite to Course B1: Course A1, A2, or elementary entrance French.

Prerequisite to Course B2: Course B1 or intermediate entrance French.

1, 2—General Introduction to the Study of French Literature. Reading, composition, and lectures. Professor FONTAINE and Mr. MULLER. 6 or 8 points.

M., W., and F. Section I at 10, Section II at 2; also for students entering on intermediate French, and for others who in the judgment of the instructor may need it, Tu. at 2.

Prerequisite: for the 8-point course, Course B1 or intermediate entrance French; for the 6-point course, Course B2, or advanced entrance French.

3, 4—Modern French Writers, Especially the Historians. Composi-

tions and class work entirely in French. Professor JORDAN. 6 points.
M., W., and F. at 1.

Prerequisite: Course 1, 2 or the equivalent of Course B2, with special training in the practical use of the language.

Students taking any of the following electives are strongly advised to take Course 11, 12 at the same time.

5, 6—History of French Literature in the Seventeenth Century. Professor WEEKS. 6 points.

M., W., and F. at 11.

Prerequisite: grade C in Course 1, 2, or Course 3, 4.

11, 12—Advanced Composition and Conversation. Professor JORDAN. 2 points.

Th. at 2.

Prerequisite: Course 1, 2.

This course may be taken only in combination with another elective course in French.

Courses 103, 104, History of French Literature in the Eighteenth Century, Professor LOISEAUX; 105, 106, History of French Literature in the Nineteenth Century, Professor WEEKS; 111, 112, French Literature in the Sixteenth Century, Professor GERIG; 113, 114, Old French, Professor TODD, given at Columbia University, are open, with the consent of the Department of Romance Languages and Literatures and the Committee on Instruction, to properly qualified seniors. For fuller information students are referred to the Announcement of the Division of Modern Languages.

Italian

1, 2—Elementary Course. Grammar, reading, composition. Mr. BIGONGIARI. 6 points.

M., W., and F. at 1.

This course may not be taken at the same time with Spanish 1, 2.

3, 4—General Introduction to the Study of Italian Literature. Professor SPERANZA. 6 points.

M., W., and F. at 1.

Prerequisite: Course 1, 2.

Courses 131, Italian Literature of the Fourteenth Century, exclusive of the *Divina Commedia*, 132, Italian Literature of the Fifteenth Century, 137, 138, Critical Study of Dante's *Divina Commedia*, all by Professor SPERANZA, given at Columbia University are open, with the consent of the Department of Romance Languages and Literatures and the Committee on Instruction, to properly qualified seniors. For fuller information students are referred to the Announcement of the Division of Modern Languages.

Spanish

1, 2—Elementary Course. Grammar, reading, composition. Mr. FORTIER. 6 points.

M., W., and F. at 10.

This course may not be taken at the same time with Italian 1, 2.

3, 4—General Introduction to Spanish Literature. Grammar, reading, composition. Professor LOISEAUX. 6 points.

M., W., and F. at 10.

Prerequisite: Course 1, 2.

Courses 141, 142, the Novela of the Golden Age, given at Columbia University, are open with the consent of the Department of Romance Languages and Literatures and the Committee on Instruction, to properly qualified seniors. For fuller information students are referred to the Announcement of the Division of Modern Languages.

Romance Philology

Courses 151, 152, Introduction to Romance Philology, Phonology (first half-year), Morphology (second half-year), Professor TODD, are open under the same conditions to properly qualified seniors.

Sociology. See **Economics and Social Science.**

ZÖÖLOGY

1-2—General Biology and General Zoölogy. Elementary course. Professors CRAMPTON and OSBURN, Miss DEDERER, and Dr. GREGORY. 2 lectures and 4 hours of laboratory work. 8 points.

Tu. and Th. at 1. Laboratory work, Tu. and Th., or W. and F., 2-4.

Laboratory fee, \$5.

Open to sophomores, juniors, and seniors; especially designed for students of physiology, geology, and medicine, as well as for those who intend to pursue zoölogy and botany.

3—Histology. Miss DEDERER. 1 lecture and 2 hours of laboratory work. 2 points.

W. at 9.

Laboratory fee, \$2.50, unless taken with Course 1.

Prerequisite or parallel: Course 1. Recommended as a parallel to Course 1.

4—Embryology. Professor OSBURN. 1 lecture and 2 hours of laboratory work. 2 points.

W. at 9.

Laboratory fee, \$2.50, unless taken with Course 2 or Course 102.

Prerequisite or parallel: Course 1-2. Recommended as a parallel to Course 2.

[5—General Biology. The general principles of biology, variation, inheritance, evolution, geographical distribution, animal coloration, and related topics. Professor CRAMPTON. 2 points.

Laboratory fee, \$1.25.

Prerequisite: Course 1-2.

This course supplements the general discussions given in Courses 1-2 and 101-102 and gives opportunity for a more critical and extended treatment of general principles.

Not given in 1910-11.]

[6—Experimental Biology. An introduction to the experimental study of growth, reactions to stimuli, development, inheritance, and related topics. Professor CRAMPTON. 2 points.

Laboratory fee, \$1.25.

Prerequisite: Course 1-2.

This course gives opportunity to undergraduates to become familiar with some of the methods and results of experimental research, and forms a desirable preparation for graduate work in experimental subjects.

Not given in 1910-11.]

7-8—Human Biology. General human anatomy, physiology and biological relations, in comparison with other animal organisms. Professors CRAMPTON and OSBURN and Dr. GREGORY. 2 lectures and 2 hours of laboratory demonstrations or conference. 6 points.

M., W., and F. at 10, and one hour to be arranged.

Laboratory fee, \$2.50.

Open to students of all classes. This course cannot be counted as fulfilling the prescribed requirement in science for the A.B. or B.S. degree.

101-102—General Zoölogy. Advanced course. Professors CRAMPTON and OSBURN, Miss DEDERER, and Dr. GREGORY. 3 lectures and 6 hours of laboratory work. 12 points.

M., W., and F. 9-12.

Laboratory fee, \$5.

Prerequisite: Courses 1-2 and 4.

This course is designed for students intending to enter medicine, also for students of zoölogy and botany, as graduate subjects.

151-152—General Physiology. General principles of animal physiology. Professor OSBURN and Dr. GREGORY. 2 lectures, and 4 hours of demonstration and laboratory work. 8 points.

Tu. and Th. 9-12.

Laboratory fee, \$5.

Open to juniors and seniors. This course is designed for students of zoölogy, botany, and psychology, as well as for students intending to study medicine, and may be taken together with, or subsequent to, Course 1-2.

153, 154—Practical Zoölogy and Embryology. Miss DEDERER. 3 hours of conference and laboratory work. 4 points.

Hours to be arranged.

Laboratory fee, \$5.

Prerequisite: Course 1-2.

This course is designed for students of zoölogy desiring practice in the preparation and mounting of zoölogical, histological, and embryological materials for microscopic examination.

SCHEME OF

HOURS	MONDAY	TUESDAY	WEDNESDAY
A.M.			
9	*Architecture 23-24 Botany 51-52 †Education 19-20 English 31, 32 German 1-2 (I) German 5-6 (I, II) German 39, 40 Latin 5, 6 Mathematics A1, A2 (I, II) Philosophy A1, A2 (I, II) Philosophy 61-62 Zoölogy 101-102	Astronomy 3, 4 Botany 153 Economics A1-A2 (I) English B1, B2 (I-III) Geography 1-2 (II) German 25-26 History A1-A2 (I) Latin 11-12 Mathematics A1, A2 (IV, V) Zoölogy 151-152	Botany 51-52 English 31, 32 German 1-2 (I) German 5-6 (I, II) German 39, 40 Latin 5, 6 Mathematics A1, A2 (I, II) Philosophy A1, A2 (I, II) Philosophy 61-62 Zoölogy 3, 4 Zoölogy 101-102
IO	Astronomy 1, 2 †Education B (VIII) †Education 105-106 English 25-26 French A1, A2 (I, II) French 1, 2 (I) †Geography 1-2 (I) German A1-A2 (I, II) German 21, 22 Greek 3, 4 History 3-4 †Latin 51-52 Mathematics A1, A2 (III, IV) Mathematics 21, 22 Philosophy A1, A2 (III, IV) Spanish 1, 2 Spanish 3, 4 Zoölogy 7-8 Zoölogy 101-102	*Architecture 21-22 Economics A1-A2 (II) *Economics 104 †Education A (II, III) †Education 21-22 (I) †Education 107-108 English A1, A2 (I-III) English 45-46 †Geography 1, 2 (II) Geology 1, 2 German 3-4 German 9, 10 Greek 7, 8 History A1-A2 (II) *Music 1-2 Zoölogy 151-152	Astronomy 1, 2 †Education A (IV) †Education B (VIII) †Education 105-106 English 25-26 English 33, 34 French A1, A2 (I, II) French 1, 2 (I) †Geography 1-2 (I, II) German A1-A2 (I, II) German 21, 22 Greek 3, 4 History 3-4 †Latin 51-52 Mathematics A1, A2 (III, IV) Mathematics 21, 22 Philosophy A1, A2 (III, IV) Spanish 1, 2 Spanish 3, 4 Zoölogy 7-8 Zoölogy 101-102
II	*Architecture 25-26 Chemistry 5-6 †Education 87-88 †Education 121-122 English 27-28 English 35, 36 French B1, B2 French 5, 6 †Geography 1-2 (I) German A1-A2 (III) Greek 11-12 History 13, 14 Mathematics 25, 26 Mathematics 33-34 *Music 7-8 Philosophy A2, A1 (V) Physics 11-12 Zoölogy 101-102	Botany 53-54 Chemistry 63, 64 Economics A1-A2 (III, IV) English A1, A2 (IV) English B1, (B2 IV, V) English 1, 2 German 37, 38 Latin 1, 2 *Music 3-4 Zoölogy 151-152	Chemistry 5-6 †Education 87-88 †Education 121-122 English A1, A2 (V) English 27-28 English 35, 36 French B1, B2 French 5, 6 German A1-A2 (III) Greek 5, 6 History 13, 14 Mathematics 25, 26 Mathematics 33-34 *Music 7-8 Philosophy A2, A1 (V) Physics 11-12 Zoölogy 101-102

Courses marked with an asterisk [*] are given at Columbia University;

ATTENDANCE

THURSDAY	FRIDAY	SATURDAY
Astronomy 3, 4 Botany 153 Economics A1-A2 (I) †Education 19-20 English B1, B2 (I-III) German 25-26 History A1-A2 (I) Latin B1-B2 (I, II) Mathematics A1, A2 (V, VI) Zoology 151-152	*Architecture 23-24 Botany 51-52 English 31, 32 German 1-2 (I) German 5-6 (I, II) Latin 5, 6 Mathematics A1, A2 (I, II) Philosophy A1, A2 (I, II) Philosophy 61-62 Zoology 101-102	Astronomy 3, 4 History A1-A2 (I) Latin B1-B2 (I, II) Mathematics A1, A2 (V, VI)
*Architecture 21-22 Economics A1-A2 (II) *Economics 104 †Education A (II, III) †Education 21-22 (I) †Education 107-108 English A1, A2 (I-III) English 45-46 Geology 1, 2 German 3-4 German 9, 10 Greek 7, 8 History A1-A2 (II) Latin 17-18 *Music 1-2 *Music 13-14 Zoology 151-152	Astronomy 1, 2 †Education A (IV) †Education B (VIII) English 33, 34 French A1, A2 (I, II) French 1, 2 (I) †Geography 1-2 (I, II) German A1-A2 (I, II) German 21, 22 Greek 19-20 History 3-4 †Latin 51-52 Mathematics A1, A2 (III, IV) Mathematics 21, 22 Philosophy A1, A2 (III, IV) Spanish 1, 2 Spanish 3, 4 Zoology 7-8 Zoology 101-102	†Education 187-188 English A1, A2 (I-V) History A1-A2 (II)
Botany 53-54 Chemistry 63, 64 Economics A1-A2 (III, IV) English A1, A2 (IV) English B1, B2 (IV, V) English 1, 2 German 37, 38 Latin 1, 2 *Music 3-4 *Music 13-14 Zoology 151-152	*Architecture 25-26 Chemistry 5-6 †Education 87-88 English A1, A2 (V) English 35, 36 French B1, B2 French 5, 6 German A1-A2 (III) Greek 5, 6 History 13, 14 Mathematics 25, 26 Mathematics 33-34 *Music 7-8 Philosophy A2, A1 (V) Physics 11-12 Zoology 101-102	

those marked with a dagger [†] are given at Teachers College.

SCHEME OF

HOURS	MONDAY	TUESDAY	WEDNESDAY
P.M. I.IO	Anthropology 1, 2 Chemistry 41-42 †Education A French 3, 4 German 1-2 (II, III) German 5-6 (III) Italian 1, 2 Italian 3, 4 Latin 19-20 Mathematics 27-28 Mathematics 31-32 Philosophy 21-22	Economics A1-A2 (V) Economics 117, 118 History A1-A2 (III) Latin 3, 4 Mineralogy 17-18 Zoölogy 1-2	Anthropology 1, 2 Chemistry 41-42 French 3, 4 German 1-2 (II, III) German 5-6 (III) Italian 1, 2 Italian 3, 4 Latin A1-A2 (I, II) Mathematics 27-28 Mathematics 31-32 Philosophy 21-22
2.IO	English 7-8 English 29-30 †English 55, 56 French 1, 2 (II) German A1-A2 (IV) German 7, 8 Greek 1-2 History 9, 10 Mathematics 23-24 Philosophy 1, 80	†Education 21-22 (II) French 1, 2 (Composition) Greek 1-2 Greek 9-10 Mineralogy 17-18 †Physical Education C1-C2 Psychology 7-8	English 7-8 English 29-30 †English 55, 56 French 1, 2 (II) German A1-A2 (IV) German 7, 8 Greek 1-2 History A1-A2 (III) History 9, 10 Mathematics 23-24 *Music 9-10 Philosophy 1, 80
3.IO	Botany 55-56 Economics A1-A2 (I-V) †Education B (IX) French A1, A2 (III) †Mathematics 53-54 †Mathematics 151-152 †Physical Education A1, A2 (I) *Sociology 151-152	†History 51-52 History 121, 122 Latin 9-10 †Physical Education B1, B2 (I)	†Education B (IX) French A1, A2 (III) †Mathematics 53-54 †Mathematics 151-152 *Music 11-12 †Physical Education A1, A2 (I) *Sociology 151-152
4.IO	German A1-A2 (V) †Physical Education A1, A2 (II)	†Fine Arts 53, 54 †Physical Education B1, B2 (II)	German A1-A2 (V) †Physical Education A1, A2 (II)
5.IO		†Education 6 †Fine Arts 53, 54 (5-5.30)	

Courses marked with an asterisk [*] are given at Columbia University;

ATTENDANCE—Continued

THURSDAY	FRIDAY	SATURDAY
*Architecture 53, 54 Economics A1-A2 (V) Economics 117, 118 History A1-A2 (III) Latin 3, 4 Mineralogy 17-18 Zoology 1-2	Anthropology 1, 2 French 3, 4 German 1-2 (II, III) German 5-6 (III) Italian 1, 2 Italian 3, 4 Latin A1-A2 (I, II) Mathematics 27-28 Mathematics 31-32 Philosophy 21-22	
†Education 21-22 (II) French 11, 12 Greek 1-2 Greek 9-10 Mineralogy 17-18 †Physical Education C1-C2 Psychology 7-8	English 7-8 English 29-30 French 1, 2 (II) German A1-A2 (IV) German 7, 8 Greek 1-2 History 9, 10 Latin 9-10 Mathematics 23-24 *Music 9-10 Philosophy 1, 80	
†History 51-52 History 121, 122 Latin 9-10 Latin 15-16 †Physical Education B1, B2 (I)	†Education B (IX) French A1, A2 (III) †Mathematics 53-54 *Music 11-12	
†Physical Education B1, B2 (II)	German A1-A2 (V)	
†Education 6		

those marked with a dagger [†] are given at Teachers College.

ACADEMIC CALENDAR

1910-1911

- 1910—Sept. 10—Saturday, Last day for filing applications for entrance and delinquent examinations in September.
Sept. 19—Monday, Entrance examinations and examinations for deficient and debarred students begin.
Sept. 21—Wednesday, Registration begins.
Sept. 27—Tuesday, Registration ceases for students previously matriculated. Later applications received only upon payment of an additional fee of \$5.
Sept. 28—Wednesday, First half-year, 21st year begins.
Registration ceases for students matriculating for the first time. Later applications received only upon payment of an additional fee of \$5.
Nov. 8—Tuesday, Election Day, holiday.
Nov. 24—Thursday,
to
Nov. 26—Saturday, inclusive, Thanksgiving holidays.
Dec. 21—Wednesday,
to
1911—Jan. 3—Tuesday, inclusive, Christmas holidays.
Jan. 2—Monday, Last day for filing applications for mid-year entrance examinations.
Jan. 9—Monday, Mid-year entrance examinations begin.
Jan. 25—Wednesday, Mid-year examinations begin.
Feb. 7—Tuesday, First half-year ends.
Feb. 8—Wednesday, Second half-year begins.
Registration ceases for students entering the second half-year. Later applications received only upon payment of an additional fee of \$5.
Feb. 22—Wednesday, Washington's Birthday, holiday.
April 1—Saturday, Last day for filing applications for scholarships.
April 13—Thursday,
to
April 17—Monday, inclusive, Easter holidays.
May 22—Monday, Final examinations begin.
May 30—Tuesday, Memorial Day, holiday.
June 2—Friday, Class Day.
June 4—Sunday, Baccalaureate service.

- June 7—Wednesday, Commencement Day.
- June 14—Wednesday, second half-year ends.
- June 19—Monday, Examinations of the College Entrance Examination Board begin. The dates for filing applications are contained in a circular issued by the Board, Post-office Sub-Station 84, New York, N.Y.
- Sept. 9—Saturday, Last day for filing applications for entrance or delinquent examinations in September.
- Sept. 18—Monday, Entrance examinations and examinations for deficient and debarred students begin.
- Sept. 20—Wednesday, Registration begins.
- Sept. 26—Tuesday, Registration ceases for students previously matriculated. Later applications received only upon payment of an additional fee of \$5.
- Sept. 27—Wednesday, First half-year, 22d year, begins.
Registration ceases for students matriculating for the first time. Later applications received only upon payment of an additional fee of \$5.

ADDENDUM—EXTENSION COURSES

Courses in Extension Teaching, approved by the Committee on Instruction, may be credited toward the degrees of A.B. and B.S. for matriculated students registered in Extension Teaching who maintain a grade at least of C.

Students of Barnard will be allowed to attend Extension Courses which are approved by the Committee on Instruction, and to count them toward the degrees of A.B. and B.S. under the following regulations:

1. The election of Extension Courses must be approved by the Committee on Instruction.
2. Students will not be allowed to exceed a total of 16 points, including the points of Extension Courses, at one time, save by the special permission of the Committee on Instruction, for reasons of weight.
3. Students desiring to count these courses toward the degrees of A.B. and B.S. must obtain in them a grade at least of C.
4. Students desiring to elect Extension Courses, after obtaining the approval of such election by the Committee on Instruction, must make application to the Director of Extension Teaching, 109 Library, for permission to enter the Extension Courses, and after the approval of the application by him, must register for these courses at the Office of the Registrar of the University and must pay the special fees required for such Extension Courses.
5. Students desiring to count Extension Courses toward the degrees of A.B. and B.S. in Barnard College must, if the Committee on Instruction so determine, take the regular mid-year or final stated examinations in the parallel courses given at Barnard College, or else their answer books in the examinations given in Extension Courses must, at the option of the Committee on Instruction, be read and rated by the representatives of the proper departments in Barnard College.

